



May 11, 2007

Ms. Diana Mason – Petroleum Technician  
State of Utah Division of Oil, Gas and Mining  
1594 West North Temple, Suite 1210  
P. O. Box 145801  
Salt Lake City, Utah 84114-5801

RECEIVED

MAY 15 2007

DIV. OF OIL, GAS & MINING

Re: Directional Drilling R649-3-11  
Lake Canyon Area #5-21-46 DLB Well  
Surface: 1500' FNL & 1200' FWL - SWNW, 21-T4S-R6W  
Bottom Hole: 1980' FNL & 660' FWL - SWNW, 21-T4S-R6W  
Duchesne County, Utah

Dear Ms. Mason:

Pursuant to the filing of Bill Barrett Corporation's ("BBC") Application for Permit to Drill ("APD") regarding the above referenced well, we are hereby submitting this letter in accordance with Oil & Gas Conservation Rule R649-11, pertaining to Directional Drilling and the Location and Siting of Wells.

- The above-mentioned proposed location is within our Lake Canyon Area.
- BBC is permitting this well as a directional well in order to minimize surface disturbance. By locating the well at the surface location and directionally drilling from this location, BBC will be able to utilize the existing road and pipelines in the area and also minimize surface disturbance.
- BBC hereby certifies it owns a working interest along with Berry Petroleum Company, and together we own 100% of the working interest within 460 feet of the entire directional well bore.
- Our ownership rights under our Exploration and Development Agreement with the Ute Indian Tribe and UDC provides for the drilling of exploratory wells. Said agreement provides that we consult with these owners regarding the drilling of this well.

Based on the information provided, BBC requests that the permit be granted pursuant to R649-3-11. If you should have any questions or need further information, please contact me at 303-312-8129.

Sincerely,

*DOUG GUNDRY-WHITE*  
Doug Gundry-White *BY CMS*  
Senior Landman

1099 18TH STREET  
SUITE 2300  
DENVER, CO 80202  
P 303.293.9100  
F 303.291.0420



**Bill Barrett Corporation**

May 14, 2007

**RECEIVED**

**MAY 15 2007**

**DIV. OF OIL, GAS & MINING**

Utah Division of Oil, Gas and Mining  
P.O. Box 145801  
1594 West North Temple, Suite 1210  
Salt Lake City, Utah 84114-5801

# 5-21-46 BTR  
**Tribal Surface Owner (Ute Indians)/Tribal Minerals**  
SWNW, Section 21-T4S-R6W  
Duchesne County, Utah

Diana Mason, Permitting - Petroleum Technician:

Enclosed please find a copy of Bill Barrett Corporation's (BBC) application for permit to drill the above captioned well. Montgomery Archeological completed a Class III archeological survey for this location and the report dated April 27, 2007, states "no historic properties affected" the site (MOCA Report No. 07-105). Also, on May 2, 2007, a threatened and endangered species survey was conducted and the location was cleared.

Please contact me at (303) 312-8546 if you need anything additional or have any questions.

Sincerely,

Reed Haddock  
Permit Analyst

Enclosures

1099 18TH STREET  
SUITE 2300  
DENVER, CO 80202  
P 303.293.9100  
F 303.291.0420

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL OR REENTER

FORM APPROVED  
OMB No. 1004-0137  
Expires March 31, 2007

1a. Type of work: <input checked="" type="checkbox"/> DRILL <input type="checkbox"/> REENTER		5. Lease Serial No. <b>BIA 14-20-H62-5500</b>
1b. Type of Well: <input type="checkbox"/> Oil Well <input checked="" type="checkbox"/> Gas Well <input type="checkbox"/> Other <input checked="" type="checkbox"/> Single Zone <input type="checkbox"/> Multiple Zone		6. If Indian, Allottee or Tribe Name <b>UTE INDIAN TRIBE</b>
2. Name of Operator <b>BILL BARRETT CORPORATION</b>		7. If Unit or CA Agreement, Name and No. <b>N/A</b>
3a. Address <b>1099 18th Street, Suite 2300 Denver CO 80202</b>		8. Lease Name and Well No. <b># 5-21-46 DLB</b>
3b. Phone No. (include area code) <b>(303) 312-8546</b>		9. API Well No. <b>Pending 43-013-33658</b>
4. Location of Well (Report location clearly and in accordance with any State requirements.)* At surface <b>SWNW, 1500' FNL, 1200' FWL</b> At proposed prod. zone <b>SWNW, 1980' FNL, 660' FWL</b>		10. Field and Pool, or Exploratory <b>Altamont</b>
14. Distance in miles and direction from nearest town or post office* <b>Approximately 12.1 miles southwest of Duchesne, Utah</b>		11. Sec., T. R. M. or Blk. and Survey or Area <b>Section 21-T4S-R6W U.S.B.&amp;M.</b>
15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any) <b>1500' SHL; 660' BHL</b>	16. No. of acres in lease <b>N/A</b>	17. Spacing Unit dedicated to this well <b>40</b>
18. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft. <b>3000' (abandoned well)</b>	19. Proposed Depth <b>9588'</b>	20. BLM/BIA Bond No. on file <b>Nationwide Bond #WYB000040</b>
21. Elevations (Show whether DF, KDB, RT, GL, etc.) <b>7098' ungraded ground</b>	22. Approximate date work will start* <b>07/01/2007</b>	23. Estimated duration <b>45 days</b>

24. Attachments

The following, completed in accordance with the requirements of Onshore Oil and Gas Order No.1, shall be attached to this form:

- |   |  |
|---|--|
| 1. Well plat certified by a registered surveyor.  | 4. Bond to cover the operations unless covered by an existing bond on file (see Item 20 above).    |
| 2. A Drilling Plan.   | 5. Operator certification  |
| 3. A Surface Use Plan (if the location is on National Forest System Lands, the SUPO shall be filed with the appropriate Forest Service Office). | 6. Such other site specific information and/or plans as may be required by the authorized officer. |

25. Signature <i>Reed Haddock</i>	Name (Printed/Typed) <b>Reed Haddock</b>	Date <b>05/14/2007</b>
Title <b>Permit Analyst</b>		
Approved by (Signature) <i>Bradley G. Hill</i>	Name (Printed/Typed) <b>BRADLEY G. HILL</b>	Date <b>05-16-07</b>
Title <b>ENVIRONMENTAL MANAGER</b>		

Application approval does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.  
Conditions of approval, if any, are attached.

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

\*(Instructions on page 2)

surf

536471X

444116.4

40.121916

-110.571985

BHL

Federal Approval of this  
Action is Necessary

RECEIVED

MAY 15 2007

DIV. OF OIL, GAS & MINING

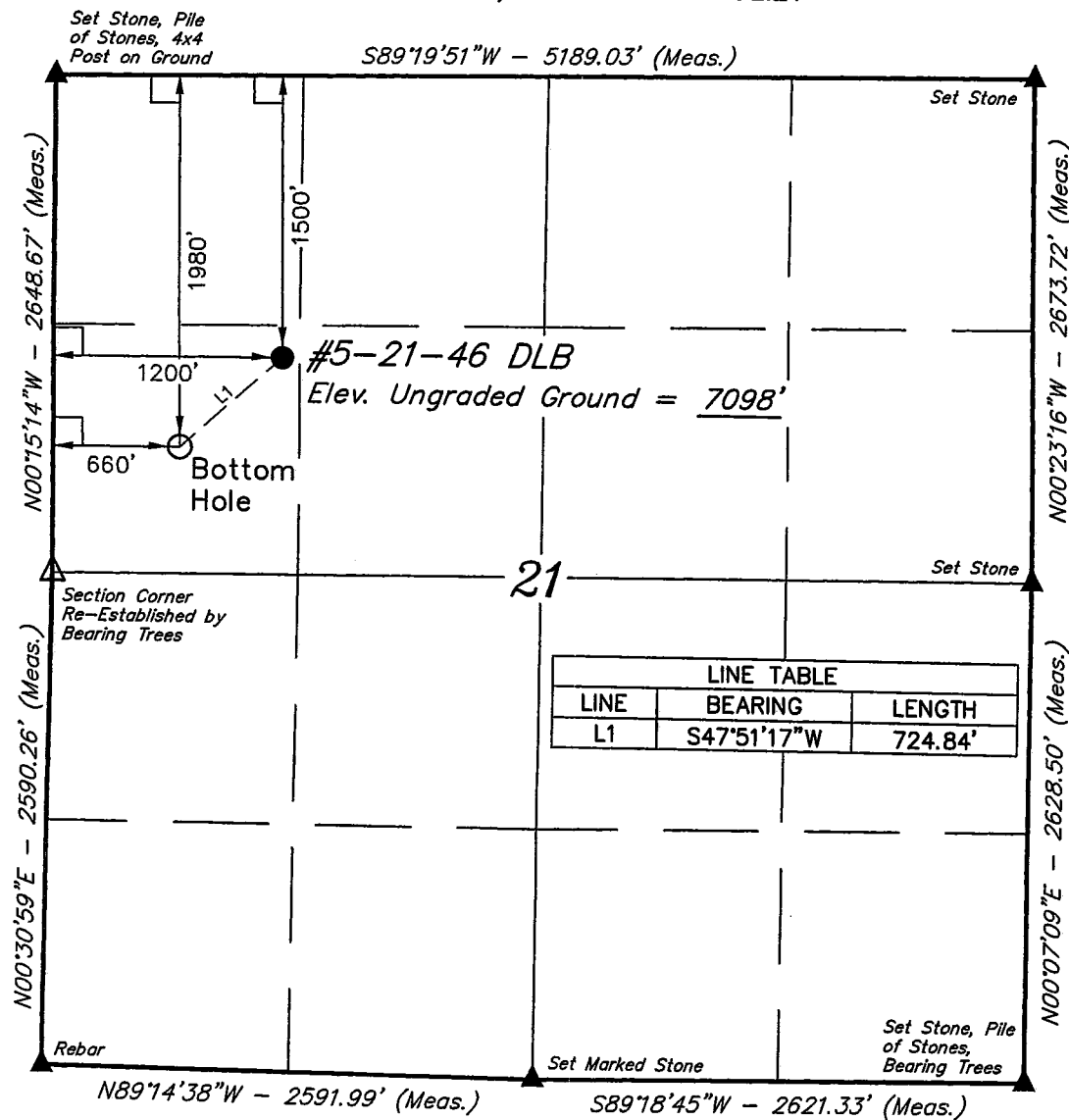
536305X

44410214

40.120604

-110.573940

T4S, R6W, U.S.B.&M.



**LEGEND:**

- └─ = 90° SYMBOL
- = PROPOSED WELL HEAD.
- ▲ = SECTION CORNERS LOCATED.
- △ = SECTION CORNERS RE-ESTABLISHED. (Not Set on Ground)

(NAD 83)  
 LATITUDE = 40°07'17.94" (40.121650)  
 LONGITUDE = 110°34'21.98" (110.572772)  
 (NAD 27)  
 LATITUDE = 40°07'18.09" (40.121692)  
 LONGITUDE = 110°34'19.42" (110.572061)

**BILL BARRETT CORPORATION**

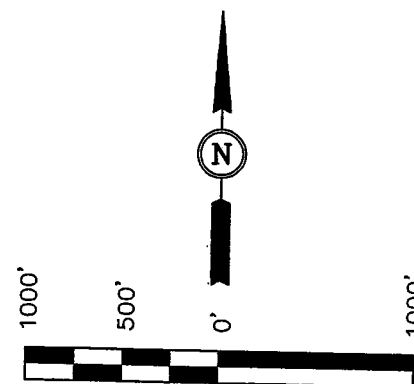
Well location, #5-21-46 DLB, located as shown in the SW 1/4 NW 1/4 of Section 21, T4S, R6W, U.S.B.&M., Duchesne County, Utah.

**BASIS OF ELEVATION**

BENCH MARK (M67) LOCATED IN THE SW 1/4 OF SECTION 9, T5S, R4W, U.S.B.&M., TAKEN FROM THE DUCHESNE SE QUADRANGLE, UTAH, DUCHESNE COUNTY, 7.5 MINUTE QUAD. (TOPOGRAPHIC MAP) PUBLISHED BY THE UNITED STATES DEPARTMENT OF THE INTERIOR, GEOLOGICAL SURVEY. SAID ELEVATION IS MARKED ON CAP AS BEING 6097 FEET.

**BASIS OF BEARINGS**

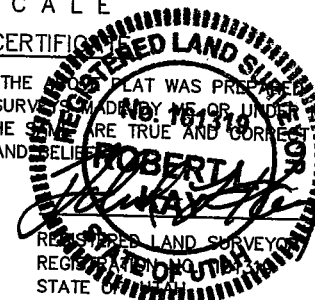
BASIS OF BEARINGS IS A G.P.S. OBSERVATION.



SCALE

CERTIFICATE

THIS IS TO CERTIFY THAT THE PLAT WAS PREPARED FROM FIELD NOTES OF ACTUAL SURVEY MADE BY ME OR UNDER MY SUPERVISION AND THAT THE SURVEY IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.



**UINTAH ENGINEERING & LAND SURVEYING**  
 85 SOUTH 200 EAST - VERNAL, UTAH 84078  
 (435) 789-1017

SCALE 1" = 1000'	DATE SURVEYED: 04-16-07	DATE DRAWN: 04-20-07
PARTY D.R. K.A. P.M.	REFERENCES G.L.O. PLAT	
WEATHER COOL	FILE BILL BARRETT CORPORATION	



Bill Barrett Corporation  
Drilling Program  
# 5-21-46 DLB  
Duchesne County, Utah

**HAZARDOUS MATERIAL DECLARATION**

WELL NO. # 5-21-46 DLB - LEASE NO. BIA 14-20-H62-5500

Bill Barrett Corporation guarantees that during the drilling and completion of the above referenced well, we will not use, produce, or store, transport or dispose 10,000# annually of any of the hazardous chemicals contained in the Environmental Protection Agency's consolidated list of chemicals subject to reporting under Title III Super Amendments and Reauthorization Act (SARA) of 1986.

Bill Barrett Corporation guarantees that during the drilling and completion of the above referenced well, we will use, produce, store, transport, or dispose less than the threshold planning quantity (TPQ) of any extremely hazardous substances as defined in 40 CFR 355.

Bill Barrett Corporation  
Drilling Program  
# 5-21-46 DLB  
Duchesne County, Utah

## DRILLING PLAN

BILL BARRETT CORPORATION  
# 5-21-46 DLB  
SHL: SWNW, 1500' FNL & 1200' FWL, Section 21-T4S-R6W  
BHL: SWNW, 1980' FNL & 660' FWL, Section 21-T4S-R6W  
Surface Owner: Tribal (Ute Indian Tribe)  
Duchesne County, Utah

**1 - 2. Estimated Tops of Geological Markers and Formations Expected to Contain Water, Oil and Gas and Other Minerals**

<u>Formation</u>	<u>Depth</u>
Duchesne River/Uinta	Surface
Green River	3,855'
Douglas Creek	4,638'
Black Shale	5,306'
Castle Peak	5,584'
Wasatch	6,203' *
North Horn	8,113' *
TD	9,588'

**\*PROSPECTIVE PAY**

The Wasatch and the North Horn are primary objectives for oil/gas.

**3. BOP and Pressure Containment Data**

<u>Depth Intervals</u>	<u>BOP Equipment</u>
0 - 950'	No pressure control required
950' - TD	11" 3000# Ram Type BOP 11" 3000# Annular BOP
- Drilling spool to accommodate choke and kill lines;	
- Ancillary and choke manifold to be rated @ 3000 psi;	
- Ancillary equipment and choke manifold rated at 3,000#. All BOP and BOPE tests will be in accordance with the requirements of onshore Order No. 2;	
- The BLM and the State of Utah Division of Oil, Gas and Mining will be notified 24 hours in advance of all BOP pressure tests.	
- BOP hand wheels may be underneath the sub-structure of the rig if the drilling rig used is set up To operate most efficiently in this manner.	

**4. Casing Program**

<u>Hole Size</u>	<u>SETTING DEPTH</u>		<u>Casing Size</u>	<u>Casing Weight</u>	<u>Casing Grade</u>	<u>Thread</u>	<u>Condition</u>
	<u>(FROM)</u>	<u>(TO)</u>					
12 1/4"	surface	950'	9 5/8"	36#	J or K 55	ST&C	New
7 7/8"	surface	9,588'	5 1/2"	17#	N or I 80	LT&C	New

5. **Cementing Program**

9 5/8" Surface Casing	Approximately 330 sx Halliburton Light Premium with additives mixed at 12.3 ppg (yield = 1.43 ft <sup>3</sup> /sx) circulated to surface with 100% excess
5 1/2" Production Casing	Approximately 190 sx Halliburton Hi-Fill Modified cement with additives mixed at 11.0 ppg (yield = 3.81 ft <sup>3</sup> /sx). Approximately 760 sx Halliburton Light Premium Plus cement with additives mixed at 13.5 ppg (yield = 1.58 ft <sup>3</sup> /sx). Top of cement to be determined by log and sample evaluation; estimated TOC 950'.

6. **Mud Program**

<u>Interval</u>	<u>Weight</u>	<u>Viscosity</u>	<u>Fluid Loss</u> <u>(API filtrate)</u>	<u>Remarks</u>
40' – 950'	8.3 – 8.8	26 – 36	NC	Freshwater Spud Mud Fluid System
950' – TD	8.6 – 9.4	42-52	20 cc or less	DAP Polymer Fluid System
Note: Sufficient mud materials to maintain mud properties, control lost circulation and to contain "kicks" will be available at wellsite. BBC may require minor amounts of diesel to be added to its fluid system in order to reduce torque and drag.				

7. **Testing, Logging and Core Programs**

Cores	None anticipated;
Testing	None anticipated; drill stem tests may be run on shows of interest;
Sampling	30' to 50' samples; surface casing to TD. Preserve samples all show intervals;
Surveys	MWD as needed to land wellbore;
Logging	DIL-GR-SP, FDC-CNL-GR-CALIPER-Pe-Microlog, Sonic-GR (all TD to surface). FMI & Sonic Scanner to be run at geologist's discretion.

8. **Anticipated Abnormal Pressures or Temperatures**

No abnormal pressures or temperatures or other hazards are anticipated.

Maximum anticipated bottom hole pressure equals approximately 4687 psi\* and maximum anticipated surface pressure equals approximately 2578 psi\*\* (bottom hole pressure minus the pressure of a partially evacuated hole calculated at 0.22 psi/foot).

\*Max Mud Wt x 0.052 x TD = A (bottom hole pressure)

\*\*Maximum surface pressure = A – (0.22 x TD)

9. **Auxiliary equipment**

- Upper kelly cock; lower Kelly cock will be installed while drilling
- Inside BOP or stab-in valve (available on rig floor)
- Safety valve(s) and subs to fit all string connections in use
- Mud monitoring will be visually observed

Bill Barrett Corporation  
Drilling Program  
# 5-21-46 DLB  
Duchesne County, Utah

**10.     Location and Type of Water Supply**

Water for the drilling and completion will be trucked from the Duchesne City Culinary Water Dock located in Sec. 1, T4S, R5W.

**11.     Drilling Schedule**

Location Construction:	Approximately June 15, 2007
Spud:	Approximately July 1, 2007
Duration:	20 days drilling time
	45 days completion time

## # 5-21-46 DLB Proposed Cementing Program

<u>Job Recommendation</u>		<u>Surface Casing</u>	
<b>Lead Cement - (950' - 0')</b>			
Halliburton Light Premium	Fluid Weight:	12.3	lbm/gal
2.0% Calcium Chloride	Slurry Yield:	1.43	ft <sup>3</sup> /sk
0.25 lbm/sk Ploy-E-Flake	Total Mixing Fluid:	10.6	Gal/sk
	Top of Fluid:	0'	
	Calculated Fill:	950'	
	Volume:	119.22	bbl
	<b>Proposed Sacks:</b>	<b>330</b>	<b>sks</b>

<u>Job Recommendation</u>		<u>Production Casing</u>	
<b>Lead Cement - (4138' - 850')</b>			
Halliburton Hi-Fill Modified	Fluid Weight:	11.0	lbm/gal
16.0% Bentonite	Slurry Yield:	3.81	ft <sup>3</sup> /sk
0.75% Ecpnolite	Total Mixing Fluid:	23.00	Gal/sk
7.5 lbm/sk Gilsonite	Top of Fluid:	850'	
2.0 lbm/sk Granulite TR	Calculated Fill:	3,288'	
3.0% Salt	Volume:	126.82	bbl
0.2% HR-7	<b>Proposed Sacks:</b>	<b>190</b>	<b>sks</b>
<b>Tail Cement - (9588' - 4138')</b>			
Halliburton Light Premium Plus	Fluid Weight:	13.5	lbm/gal
3.0% KCl	Slurry Yield:	1.58	ft <sup>3</sup> /sk
1.0% Econolite	Total Mixing Fluid:	7.77	Gal/sk
0.5% Halad®-322	Top of Fluid:	4,138'	
0.6% HR-5	Calculated Fill:	5,450'	
0.25 lbm/sk Flocele	Volume:	210.22	bbl
1.0 lbm/sk Granulite	<b>Proposed Sacks:</b>	<b>760</b>	<b>sks</b>



# **Weatherford**

## **Drilling Services**

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## **Proposal**

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**Bill Barrett Corporation**

### **BILL BARRETT CORPORATION**

#5-21-46 DLB

DUCHESNE COUNTY, UTAH

WELL FILE:PLAN1

MAY 7, 2007

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**Weatherford International, Ltd.**  
363 North Sam Houston Pkwy E, Suite 600  
Houston, Texas 77060 USA  
+1.281.260.5600 Main  
+1.281.260.2763 Fax  
[www.weatherford.com](http://www.weatherford.com)





#5-21-46 DLB  
SEC 21 T4S R6W  
1500' FNL, 1200' FWL  
DUCHESE COUNTY, UTAH

SECTION DETAILS										
Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	DLeg	TFace	VSec	Target
1	0.00	0.00	227.88	0.00	0.00	0.00	0.00	0.00	0.00	
2	1000.00	0.00	227.88	1000.00	0.00	0.00	0.00	0.00	0.00	
3	1427.95	8.56	227.88	1426.36	-21.40	-23.67	2.00	227.88	31.90	
4	5656.97	8.56	227.88	5608.28	-443.52	-490.52	0.00	0.00	661.30	
5	6512.87	0.00	227.88	6461.00	-486.31	-537.85	1.00	180.00	725.11	
6	9587.87	0.00	227.88	9536.00	-486.31	-537.85	0.00	227.88	725.11	PBHL_#5-21-46 DLB

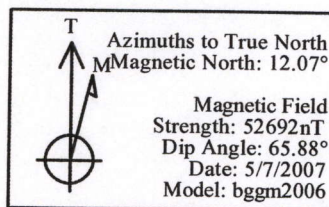
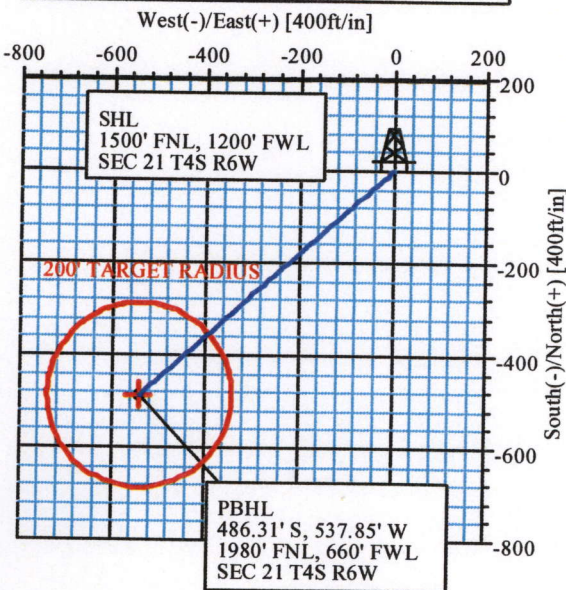
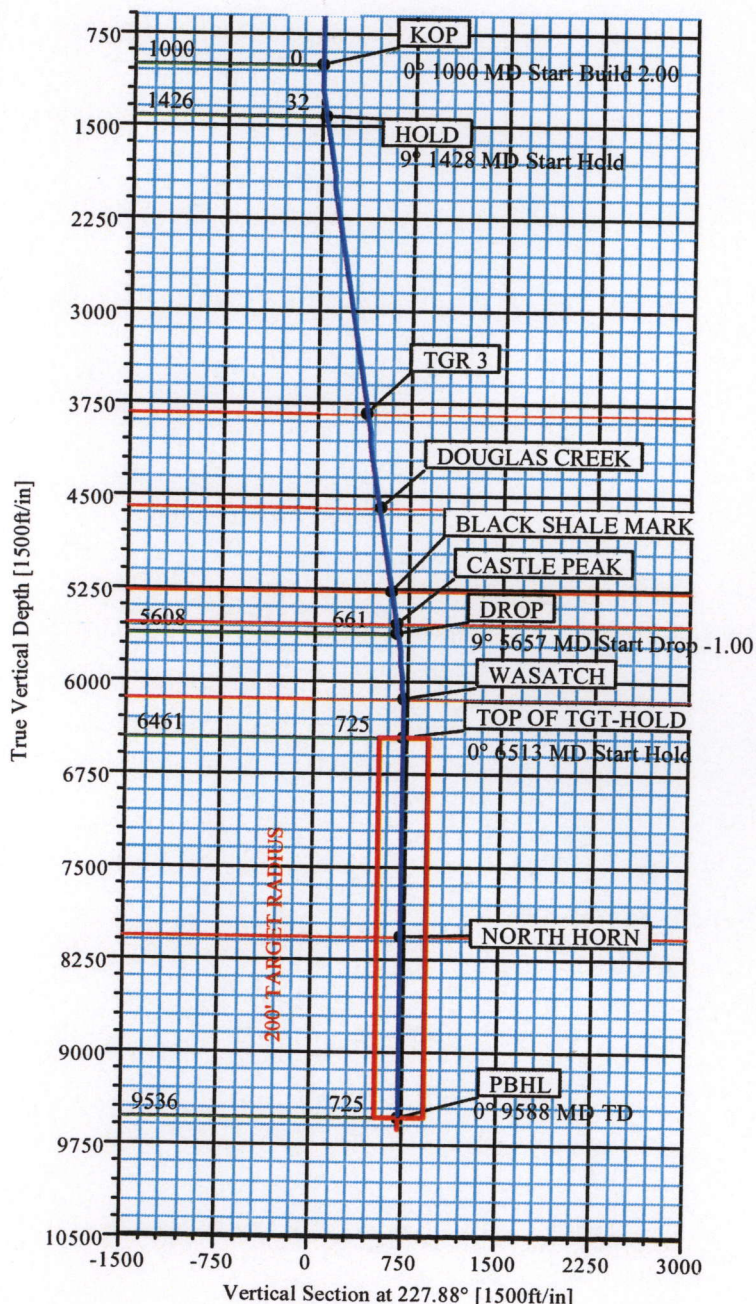
WELL DETAILS							
Name	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Slot
#5-21-46 DLB	0.00	0.00	7214393.80	1899706.18	40°07'17.940N	110°34'21.980W	N/A

ASSUMED 15' KB ELEVATION

KB ELEVATION: 7110.5'  
GR ELEVATION: 7095.5'

SITE DETAILS	
#5-21-46 DLB SECTION 21-T4S-R6W 1500' FNL, 1200' FWL	
Site Centre Latitude: 40°07'17.940N Longitude: 110°34'21.980W	
Ground Level: 7095.50 Positional Uncertainty: 0.00 Convergence: 0.59	

FORMATION TOP DETAILS			
No.	TVDPath	MDPath	Formation
1	3826.00	3854.62	TGR 3
2	4601.00	4638.34	DOUGLAS CREEK
3	5261.00	5305.78	BLACK SHALE MARKER
4	5536.00	5583.87	CASTLE PEAK
5	6151.00	6202.72	WASATCH
6	8061.00	8112.87	NORTH HORN



TOTAL CORRECTION TO TRUE NORTH: 12.07°



Weatherford®

Plan: Plan #1 (#5-21-46 DLB/1)

Created By: ROBERT SCOTT

Date: 5/7/2007

# Weatherford International, Ltd.

## PLAN REPORT

Company: BILL BARRETT CORP	Date: 5/7/2007	Time: 18:13:22	Page: 1
Field: DUCHESNE COUNTY, UTAH	Co-ordinate(NE) Reference:	Site: #5-21-46 DLB, True North	
Site: #5-21-46 DLB	Vertical (TVD) Reference:	SITE 7110.5	
Well: #5-21-46 DLB	Section (VS) Reference:	Well (0.00N,0.00E,227.88Azi)	
Wellpath: 1	Survey Calculation Method:	Minimum Curvature	Db: Sybase

Field: DUCHESNE COUNTY, UTAH

Map System: US State Plane Coordinate System 1983  
 Geo Datum: GRS 1980  
 Sys Datum: Mean Sea Level

Map Zone: Utah, Central Zone  
 Coordinate System: Site Centre  
 Geomagnetic Model: bggm2006

Site: #5-21-46 DLB  
 SECTION 21-T4S-R6W  
 1500' FNL, 1200' FWL

Site Position:	Northing: 7214393.80 ft	Latitude: 40 7 17.940 N	
From: Geographic	Easting: 1899706.18 ft	Longitude: 110 34 21.980 W	
Position Uncertainty: 0.00 ft		North Reference: True	
Ground Level: 7095.50 ft		Grid Convergence: 0.59 deg	

Well: #5-21-46 DLB

Slot Name:

Well Position: +N/-S 0.00 ft	Northing: 7214393.80 ft	Latitude: 40 7 17.940 N	
+E/-W 0.00 ft	Easting: 1899706.18 ft	Longitude: 110 34 21.980 W	
Position Uncertainty: 0.00 ft			

Wellpath: 1

Current Datum: SITE	Height 7110.50 ft	Drilled From: Surface	
Magnetic Data: 5/7/2007		Tie-on Depth: 0.00 ft	
Field Strength: 52692 nT		Above System Datum: Mean Sea Level	
Vertical Section: Depth From (TVD)	+N/-S	Declination: 12.07 deg	
ft	ft	Mag Dip Angle: 65.88 deg	
		+E/-W	Direction
		ft	deg
9536.00	0.00	0.00	227.88

Plan: Plan #1

Date Composed: 5/7/2007  
 Version: 1  
 Tied-to: From Surface

Principal: Yes

### Plan Section Information

MD ft	Incl deg	Azim deg	TVD ft	+N/-S ft	+E/-W ft	DLS deg/100ft	Build deg/100ft	Turn deg/100ft	TFO deg	Target
0.00	0.00	227.88	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
1000.00	0.00	227.88	1000.00	0.00	0.00	0.00	0.00	0.00	0.00	
1427.95	8.56	227.88	1426.36	-21.40	-23.67	2.00	2.00	0.00	227.88	
5656.97	8.56	227.88	5608.28	-443.52	-490.52	0.00	0.00	0.00	0.00	
6512.87	0.00	227.88	6461.00	-486.31	-537.85	1.00	-1.00	0.00	180.00	
9587.87	0.00	227.88	9536.00	-486.31	-537.85	0.00	0.00	0.00	227.88	PBHL_#5-21-46 DLB

### Survey

MD ft	Incl deg	Azim deg	TVD ft	N/S ft	E/W ft	VS ft	DLS deg/100ft	Build deg/100ft	Turn deg/100ft	Comment
1000.00	0.00	227.88	1000.00	0.00	0.00	0.00	0.00	0.00	0.00	KOP
1100.00	2.00	227.88	1099.98	-1.17	-1.29	1.75	2.00	2.00	0.00	
1200.00	4.00	227.88	1199.84	-4.68	-5.18	6.98	2.00	2.00	0.00	
1300.00	6.00	227.88	1299.45	-10.53	-11.64	15.69	2.00	2.00	0.00	
1400.00	8.00	227.88	1398.70	-18.70	-20.68	27.88	2.00	2.00	0.00	
1427.95	8.56	227.88	1426.36	-21.40	-23.67	31.90	2.00	2.00	0.00	HOLD
1500.00	8.56	227.88	1497.61	-28.59	-31.62	42.63	0.00	0.00	0.00	
1600.00	8.56	227.88	1596.49	-38.57	-42.66	57.51	0.00	0.00	0.00	
1700.00	8.56	227.88	1695.38	-48.55	-53.70	72.39	0.00	0.00	0.00	
1800.00	8.56	227.88	1794.27	-58.53	-64.74	87.28	0.00	0.00	0.00	
1900.00	8.56	227.88	1893.15	-68.52	-75.78	102.16	0.00	0.00	0.00	
2000.00	8.56	227.88	1992.04	-78.50	-86.82	117.04	0.00	0.00	0.00	
2100.00	8.56	227.88	2090.93	-88.48	-97.86	131.92	0.00	0.00	0.00	
2200.00	8.56	227.88	2189.81	-98.46	-108.89	146.81	0.00	0.00	0.00	
2300.00	8.56	227.88	2288.70	-108.44	-119.93	161.69	0.00	0.00	0.00	



# Weatherford International, Ltd.

## PLAN REPORT

Company: BILL BARRETT CORP  
 Field: DUCHESNE COUNTY, UTAH  
 Site: #5-21-46 DLB  
 Well: #5-21-46 DLB  
 Wellpath: 1

Date: 5/7/2007 Time: 18:13:22 Page: 2  
 Co-ordinate(N/E) Reference: Site: #5-21-46 DLB, True North  
 Vertical (TVD) Reference: SITE 7110.5  
 Section (VS) Reference: Well (0.00N,0.00E,227.88Azi)  
 Survey Calculation Method: Minimum Curvature Db: Sybase

### Survey

MD ft	Incl deg	Azim deg	TVD ft	N/S ft	E/W ft	VS ft	DLS deg/100ft	Build deg/100ft	Turn deg/100ft	Comment
2400.00	8.56	227.88	2387.58	-118.42	-130.97	176.57	0.00	0.00	0.00	
2500.00	8.56	227.88	2486.47	-128.40	-142.01	191.46	0.00	0.00	0.00	
2600.00	8.56	227.88	2585.36	-138.39	-153.05	206.34	0.00	0.00	0.00	
2700.00	8.56	227.88	2684.24	-148.37	-164.09	221.22	0.00	0.00	0.00	
2800.00	8.56	227.88	2783.13	-158.35	-175.13	236.10	0.00	0.00	0.00	
2900.00	8.56	227.88	2882.02	-168.33	-186.17	250.99	0.00	0.00	0.00	
3000.00	8.56	227.88	2980.90	-178.31	-197.21	265.87	0.00	0.00	0.00	
3100.00	8.56	227.88	3079.79	-188.29	-208.25	280.75	0.00	0.00	0.00	
3200.00	8.56	227.88	3178.68	-198.28	-219.29	295.64	0.00	0.00	0.00	
3300.00	8.56	227.88	3277.56	-208.26	-230.33	310.52	0.00	0.00	0.00	
3400.00	8.56	227.88	3376.45	-218.24	-241.37	325.40	0.00	0.00	0.00	
3500.00	8.56	227.88	3475.33	-228.22	-252.41	340.28	0.00	0.00	0.00	
3600.00	8.56	227.88	3574.22	-238.20	-263.44	355.17	0.00	0.00	0.00	
3700.00	8.56	227.88	3673.11	-248.18	-274.48	370.05	0.00	0.00	0.00	
3800.00	8.56	227.88	3771.99	-258.17	-285.52	384.93	0.00	0.00	0.00	
3854.62	8.56	227.88	3826.00	-263.62	-291.55	393.06	0.00	0.00	0.00	TGR 3
3900.00	8.56	227.88	3870.88	-268.15	-296.56	399.81	0.00	0.00	0.00	
4000.00	8.56	227.88	3969.77	-278.13	-307.60	414.70	0.00	0.00	0.00	
4100.00	8.56	227.88	4068.65	-288.11	-318.64	429.58	0.00	0.00	0.00	
4200.00	8.56	227.88	4167.54	-298.09	-329.68	444.46	0.00	0.00	0.00	
4300.00	8.56	227.88	4266.42	-308.07	-340.72	459.35	0.00	0.00	0.00	
4400.00	8.56	227.88	4365.31	-318.05	-351.76	474.23	0.00	0.00	0.00	
4500.00	8.56	227.88	4464.20	-328.04	-362.80	489.11	0.00	0.00	0.00	
4600.00	8.56	227.88	4563.08	-338.02	-373.84	503.99	0.00	0.00	0.00	
4638.34	8.56	227.88	4601.00	-341.84	-378.07	509.70	0.00	0.00	0.00	DOUGLAS CREEK
4700.00	8.56	227.88	4661.97	-348.00	-384.88	518.88	0.00	0.00	0.00	
4800.00	8.56	227.88	4760.86	-357.98	-395.92	533.76	0.00	0.00	0.00	
4900.00	8.56	227.88	4859.74	-367.96	-406.96	548.64	0.00	0.00	0.00	
5000.00	8.56	227.88	4958.63	-377.94	-417.99	563.53	0.00	0.00	0.00	
5100.00	8.56	227.88	5057.51	-387.93	-429.03	578.41	0.00	0.00	0.00	
5200.00	8.56	227.88	5156.40	-397.91	-440.07	593.29	0.00	0.00	0.00	
5300.00	8.56	227.88	5255.29	-407.89	-451.11	608.17	0.00	0.00	0.00	
5305.78	8.56	227.88	5261.00	-408.46	-451.75	609.03	0.00	0.00	0.00	BLACK SHALE MARKER
5400.00	8.56	227.88	5354.17	-417.87	-462.15	623.06	0.00	0.00	0.00	
5500.00	8.56	227.88	5453.06	-427.85	-473.19	637.94	0.00	0.00	0.00	
5583.87	8.56	227.88	5536.00	-436.22	-482.45	650.42	0.00	0.00	0.00	CASTLE PEAK
5600.00	8.56	227.88	5551.95	-437.83	-484.23	652.82	0.00	0.00	0.00	
5656.97	8.56	227.88	5608.28	-443.52	-490.52	661.30	0.00	0.00	0.00	DROP
5700.00	8.13	227.88	5650.86	-447.71	-495.15	667.55	1.00	-1.00	0.00	
5800.00	7.13	227.88	5749.97	-456.61	-505.00	680.82	1.00	-1.00	0.00	
5900.00	6.13	227.88	5849.30	-464.35	-513.56	692.36	1.00	-1.00	0.00	
6000.00	5.13	227.88	5948.82	-470.93	-520.84	702.17	1.00	-1.00	0.00	
6100.00	4.13	227.88	6048.49	-476.34	-526.82	710.24	1.00	-1.00	0.00	
6200.00	3.13	227.88	6148.29	-480.59	-531.52	716.57	1.00	-1.00	0.00	
6202.72	3.10	227.88	6151.00	-480.69	-531.63	716.72	1.00	-1.00	0.00	WASATCH
6300.00	2.13	227.88	6248.18	-483.66	-534.92	721.16	1.00	-1.00	0.00	
6400.00	1.13	227.88	6348.14	-485.57	-537.03	724.00	1.00	-1.00	0.00	
6500.00	0.13	227.88	6448.13	-486.31	-537.84	725.10	1.00	-1.00	0.00	
6512.87	0.00	227.88	6461.00	-486.31	-537.85	725.11	1.00	-1.00	0.00	TOP OF TGT-HOLD
6600.00	0.00	227.88	6548.13	-486.31	-537.85	725.11	0.00	0.00	0.00	
6700.00	0.00	227.88	6648.13	-486.31	-537.85	725.11	0.00	0.00	0.00	
6800.00	0.00	227.88	6748.13	-486.31	-537.85	725.11	0.00	0.00	0.00	
6900.00	0.00	227.88	6848.13	-486.31	-537.85	725.11	0.00	0.00	0.00	

# Weatherford International, Ltd.

## PLAN REPORT

**Company:** BILL BARRETT CORP  
**Field:** DUCHESNE COUNTY, UTAH  
**Site:** #5-21-46 DLB  
**Well:** #5-21-46 DLB  
**Wellpath:** 1

<b>Date:</b> 5/7/2007	<b>Time:</b> 18:13:22	<b>Page:</b> 3
<b>Co-ordinate(NE) Reference:</b>	Site: #5-21-46 DLB, True North	
<b>Vertical (TVD) Reference:</b>	SITE 7110.5	
<b>Section (VS) Reference:</b>	Well (0.00N,0.00E,227.88Azi)	
<b>Survey Calculation Method:</b>	Minimum Curvature	<b>Db:</b> Svbase

## Survey

MD ft	Incl deg	Azim deg	TVD ft	N/S ft	E/W ft	VS ft	DLS deg/100ft	Build deg/100ft	Turn deg/100ft	Comment
7000.00	0.00	227.88	6948.13	-486.31	-537.85	725.11	0.00	0.00	0.00	
7100.00	0.00	227.88	7048.13	-486.31	-537.85	725.11	0.00	0.00	0.00	
7200.00	0.00	227.88	7148.13	-486.31	-537.85	725.11	0.00	0.00	0.00	
7300.00	0.00	227.88	7248.13	-486.31	-537.85	725.11	0.00	0.00	0.00	
7400.00	0.00	227.88	7348.13	-486.31	-537.85	725.11	0.00	0.00	0.00	
7500.00	0.00	227.88	7448.13	-486.31	-537.85	725.11	0.00	0.00	0.00	
7600.00	0.00	227.88	7548.13	-486.31	-537.85	725.11	0.00	0.00	0.00	
7700.00	0.00	227.88	7648.13	-486.31	-537.85	725.11	0.00	0.00	0.00	
7800.00	0.00	227.88	7748.13	-486.31	-537.85	725.11	0.00	0.00	0.00	
7900.00	0.00	227.88	7848.13	-486.31	-537.85	725.11	0.00	0.00	0.00	
8000.00	0.00	227.88	7948.13	-486.31	-537.85	725.11	0.00	0.00	0.00	
8100.00	0.00	227.88	8048.13	-486.31	-537.85	725.11	0.00	0.00	0.00	
8112.87	0.00	227.88	8061.00	-486.31	-537.85	725.11	0.00	0.00	0.00	NORTH HORN
8200.00	0.00	227.88	8148.13	-486.31	-537.85	725.11	0.00	0.00	0.00	
8300.00	0.00	227.88	8248.13	-486.31	-537.85	725.11	0.00	0.00	0.00	
8400.00	0.00	227.88	8348.13	-486.31	-537.85	725.11	0.00	0.00	0.00	
8500.00	0.00	227.88	8448.13	-486.31	-537.85	725.11	0.00	0.00	0.00	
8600.00	0.00	227.88	8548.13	-486.31	-537.85	725.11	0.00	0.00	0.00	
8700.00	0.00	227.88	8648.13	-486.31	-537.85	725.11	0.00	0.00	0.00	
8800.00	0.00	227.88	8748.13	-486.31	-537.85	725.11	0.00	0.00	0.00	
8900.00	0.00	227.88	8848.13	-486.31	-537.85	725.11	0.00	0.00	0.00	
9000.00	0.00	227.88	8948.13	-486.31	-537.85	725.11	0.00	0.00	0.00	
9100.00	0.00	227.88	9048.13	-486.31	-537.85	725.11	0.00	0.00	0.00	
9200.00	0.00	227.88	9148.13	-486.31	-537.85	725.11	0.00	0.00	0.00	
9300.00	0.00	227.88	9248.13	-486.31	-537.85	725.11	0.00	0.00	0.00	
9400.00	0.00	227.88	9348.13	-486.31	-537.85	725.11	0.00	0.00	0.00	
9500.00	0.00	227.88	9448.13	-486.31	-537.85	725.11	0.00	0.00	0.00	
9587.87	0.00	227.88	9536.00	-486.31	-537.85	725.11	0.00	0.00	0.00	PBHL_#5-21-46 DLB

### Annotation

MD ft	TVD ft	
1000.00	1000.00	KOP
1427.95	1426.36	HOLD
5656.97	5608.28	DROP
6512.87	6461.00	TOP OF TGT-HOLD
9587.87	9536.00	PBHL

## Targets

Name	Description	Dir.	TVD ft	+N/-S ft	+E/-W ft	Map Northing ft	Map Easting ft	<--- Latitude --->			<--- Longitude --->			
	Dip.							Deg	Min	Sec	Deg	Min	Sec	
PBHL_#5-21-46 DLB -Circle (Radius: 200) -Plan hit target			9536.00	-486.31	-537.85	7213901.94	1899173.40	40	7	13.134	N	110	34	28.904 W



**Bill Barrett Corporation E-bill  
1099 18th Street - Suite 2300  
Denver, Colorado 80202**

Brundage Canyon General

Duchesne County, Utah  
United States of America

## **Cementing Recommendation**

Prepared for: Dominic Spencer  
August 15, 2006  
Version: 1

Submitted by:  
Pat Kundert  
Halliburton Energy Services  
1125 17th Street - Suite 1900  
Denver, Colorado 80202  
+303.886.0839

**HALLIBURTON**

# HALLIBURTON

## Job Recommendation

9 5/8" Intermediate

### Fluid Instructions

Fluid 1: Water Spacer

Gelled Water Ahead

Fluid Density: 8.33 lbm/gal

Fluid Volume: 20 bbl

### Fluid 2: Primary Cement

Premium Plus - Type III

94 lbm/sk Premium Plus - Type III (Cement-api)

0.2 % Versaset (Thixotropic Additive)

2 % Calcium Chloride (Accelerator)

0.25 lbm/sk Flocele (Lost Circulation Additive)

Fluid Weight 14.50 lbm/gal

Slurry Yield: 1.43 ft<sup>3</sup>/sk

Total Mixing Fluid: 6.89 Gal/sk

Top of Fluid: 0 ft

Calculated Fill: 750 ft

Volume: 66.16 bbl

Calculated Sacks: 259.74 sks

Proposed Sacks: 260 sks

# HALLIBURTON

## Job Recommendation

## 5 1/2" Production

### Fluid Instructions

Fluid 1: Water Spacer

KCL Water Preflush

Fluid Density: 8.33 lbm/gal  
Fluid Volume: 10 bbl

Fluid 2: Lead Cement – (3500 – 750')

Halliburton Hi-Fill Modified

94 lbm/sk Type 5 Cement (Cement)  
16 % Bentonite (Light Weight Additive)  
0.75 % Econolite (Light Weight Additive)  
7.5 lbm/sk Gilsonite (Lost Circulation Additive)  
2 lbm/sk Granulite TR 1/4 (Lost Circulation Additive)  
3 % Salt (Salt)  
0.2 % HR-7 (Retarder)

Fluid Weight 11 lbm/gal  
Slurry Yield: 3.81 ft<sup>3</sup>/sk  
Total Mixing Fluid: 23 Gal/sk  
Top of Fluid: 750 ft  
Calculated Fill: 2750 ft  
Volume: 106.07 bbl  
Calculated Sacks: 156.32 sks  
Proposed Sacks: 160 sks

Fluid 3: Tail Cement – (TD – 3500')

Halliburton Light Premium Plus (Type 5)

3 % KCL (Clay Control)  
1 % Econolite (Light Weight Additive)  
0.5 % Halad(R)-322 (Low Fluid Loss Control)  
0.6 % HR-5 (Retarder)  
0.25 lbm/sk Flocele (Lost Circulation Additive)  
1 lbm/sk Granulite TR 1/4 (Lost Circulation Additive)

Fluid Weight 13.50 lbm/gal  
Slurry Yield: 1.58 ft<sup>3</sup>/sk  
Total Mixing Fluid: 7.77 Gal/sk  
Top of Fluid: 3500 ft  
Calculated Fill: 6000 ft  
Volume: 232.46 bbl  
Calculated Sacks: 826.05 sks  
Proposed Sacks: 830 sks

Well name: **Brundage / Lake Canyon General**  
 Operator: **Bill Barrett Corporation**  
 String type: **Surface**  
 Location: **Duchesne County, UT**

**Design parameters:**

**Collapse**  
 Mud weight: 8.60 ppg  
 Design is based on evacuated pipe.

**Minimum design factors:**  
**Collapse:**  
 Design factor 1.125

**Environment:**  
 H2S considered? No  
 Surface temperature: 70.00 °F  
 Bottom hole temperature: 79 °F  
 Temperature gradient: 1.22 °F/100ft  
 Minimum section length: 750 ft

**Burst**

Max anticipated surface pressure: 303 psi  
 Internal gradient: 0.22 psi/ft  
 Calculated BHP 468 psi

No backup mud specified.

**Burst:**

Design factor 1.10

Cement top: Surface

**Tension:**

8 Round STC: 1.80 (J)  
 8 Round LTC: 1.80 (J)  
 Buttress: 1.80 (J)  
 Premium: 1.80 (J)  
 Body yield: 1.80 (B)

Non-directional string.

Tension is based on buoyed weight.  
 Neutral point: 655 ft

**Re subsequent strings:**

Next setting depth: 8,500 ft  
 Next mud weight: 9.700 ppg  
 Next setting BHP: 4,283 psi  
 Fracture mud wt: 12.000 ppg  
 Fracture depth: 750 ft  
 Injection pressure 468 psi

Run Seq	Segment Length (ft)	Size (in)	Nominal Weight (lbs/ft)	Grade	End Finish	True Vert Depth (ft)	Measured Depth (ft)	Drift Diameter (in)	Internal Capacity (ft³)
1	750	9.625	36.00	J-55	ST&C	750	750	8.796	53.4
Run Seq	Collapse Load (psi)	Collapse Strength (psi)	Collapse Design Factor	Burst Load (psi)	Burst Strength (psi)	Burst Design Factor	Tension Load (Kips)	Tension Strength (Kips)	Tension Design Factor
1	335	2020	6.029	468	3520	7.53	24	394	16.72 J

Prepared Dominic Spencer  
 by: Bill Barrett

Phone: (303) 312-8143  
 FAX: (303) 312-8195

Date: July 21, 2006  
 Denver, Colorado

**Remarks:**

Collapse is based on a vertical depth of 750 ft, a mud weight of 8.6 ppg. The casing is considered to be evacuated for collapse purposes.  
 Collapse strength is based on the Westcott, Dunlop & Kemler method of biaxial correction for tension.

Burst strength is not adjusted for tension.

Well name:

# Brundage / Lake Canyon General

Operator: **Bill Barrett Corporation**

String type: **Production**

Location: **Duchesne County, UT**

## Design parameters:

### Collapse

Mud weight: 9.70 ppg

Design is based on evacuated pipe.

## Minimum design factors:

### Collapse:

Design factor 1.125

## Environment:

H2S considered? No  
 Surface temperature: 70.00 °F  
 Bottom hole temperature: 186 °F  
 Temperature gradient: 1.22 °F/100ft  
 Minimum section length: 1,500 ft

### Burst:

Design factor 1.10

Cement top: 2,000 ft

### Burst

Max anticipated surface pressure: 2,697 psi  
 Internal gradient: 0.22 psi/ft  
 Calculated BHP 4,787 psi

No backup mud specified.

### Tension:

8 Round STC: 1.80 (J)  
 8 Round LTC: 1.80 (J)  
 Buttress: 1.60 (J)  
 Premium: 1.50 (J)  
 Body yield: 1.50 (B)

Non-directional string.

Tension is based on buoyed weight.

Neutral point: 8,103 ft

Run Seq	Segment Length (ft)	Size (in)	Nominal Weight (lbs/ft)	Grade	End Finish	True Vert Depth (ft)	Measured Depth (ft)	Drift Diameter (in)	Internal Capacity (ft³)
1	9500	5.5	17.00	N-80	LT&C	9500	9500	4.767	327.4
Run Seq	Collapse Load (psi)	Collapse Strength (psi)	Collapse Design Factor	Burst Load (psi)	Burst Strength (psi)	Burst Design Factor	Tension Load (Kips)	Tension Strength (Kips)	Tension Design Factor
1	4787	6290	1.314	4787	7740	1.62	138	348	2.53 J

Prepared Dominic Spencer  
 by: Bill Barrett

Phone: (303) 312-8143  
 FAX: (303) 312-8195

Date: August 11, 2006  
 Denver, Colorado

## Remarks:

Collapse is based on a vertical depth of 9500 ft, a mud weight of 9.7 ppg. The casing is considered to be evacuated for collapse purposes.  
 Collapse strength is based on the Westcott, Dunlop & Kemler method of biaxial correction for tension.

Burst strength is not adjusted for tension.

Engineering responsibility for use of this design will be that of the purchaser.

# **I-80 Performance Property Comparison**

Outside Diameter, inch	Weight T & C, lb per ft	Thread Type	I-80 Performance Properties					J-55 Performance Properties					N-80 Performance Properties				
			Collapse, psi	Burst, psi	Tension, 1000 lbs		Maximum Set Depth, feet	Collapse psi	Burst, psi	Tension, 1000 lbs		Maximum Set Depth, feet	Collapse, psi	Burst, psi	Tension, 1000 lbs		Maximum Set Depth, feet
					Pipe Body Yield	Joint Strength				Pipe Body Yield	Joint Strength				Pipe Body Yield	Joint Strength	
4.500	9.50	Short	3900	6380	221	138	6930	3310	4380	152	101	5890	3900	6380	221	143	69
	10.50	Short	4940	6970	241	173	8780	4010	4790	165	132	7000	4940	6970	241	186	87
	11.60	Long	6350	7780	267	201	9610	4960	5350	184	162	7760	6350	7780	267	223	106
5.500	14.00	Short	3620	6210	322	234	6440	3120	4270	222	172	5550	3620	6210	322	243	64
	15.50	Long	4990	7000	361	282	8870	4040	4810	248	217	7180	4990	7000	361	306	88
	17.00	Long	6280	7740	397	320	10470	4910	5320	273	247	8060	6280	7740	397	348	111
7.000	20.00	Short	2740	5440	460	320	4870	2270	3740	316	234	4040	2740	5440	460	331	487
	23.00	Long	3830	6340	532	428	6810	3270	4360	366	313	5810	3830	6340	532	442	681
	26.00	Long	5410	7240	604	502	9620	4320	4980	415	367	7680	5410	7240	604	519	962
8.625	24.00	Short	1430	4290	555	337	2540	1370	2950	381	244	2440	1430	4290	555	346	254
	28.00	Long	2160	4930	636	478	3840	1880	3390	437	348	3340	2160	4930	636	493	384
	32.00	Long	3050	5710	732	574	5420	2530	3930	503	417	4500	3050	5710	732	591	542

# **I-80 Dimensions, Torques and Hydro-Test Pressures**

Outside Diameter, Inch	Weight T & C, lb per ft	Thread Type	Dimensions, inch					Make-Up Torque			Hydro- Test Pressure, psi
			Wall Thickness	Inside Diameter	Drift Diameter	Coupling Outside Diameter	Make-up Loss	ft x lbs			
								Optimum	Minimum	Maximum	
4.500	9.50	Short	0.205	4.090	3.965	5.000	2.000	1380	1040	1730	5800
	10.50	Short	0.224	4.052	3.927	5.000	2.625	1790	1340	2240	6400
	11.60	Long	0.250	4.000	3.875	5.000	3.000	2190	1640	2740	7100
5.500	14.00	Short	0.244	5.012	4.887	6.050	2.875	2340	1760	2930	5700
	15.50	Long	0.275	4.950	4.825	6.050	3.500	2950	2210	3690	6400
	17.00	Long	0.304	4.892	4.767	6.050	3.500	3350	2510	4190	7100
7.000	20.00	Short	0.272	6.456	6.331	7.656	3.125	3200	2400	4000	5000
	23.00	Long	0.317	6.366	6.250	7.656	4.000	4280	3210	5350	5800
	26.00	Long	0.362	6.276	6.151	7.656	4.000	5020	3770	6280	6600
8.625	24.00	Short	0.264	8.097	7.972	9.625	3.000	3370	2530	4210	3900
	28.00	Long	0.304	8.017	7.892	9.625	4.500	4780	3590	5980	4500
	32.00	Long	0.352	7.921	7.875	9.625	4.500	5740	4310	7180	5200

1. API Bulletin 5C3, Sixth Edition, October 1994 was used to determine the listed properties.
2. The vertical set depth was computed using a 9.625 lb. per U.S. gallon mud, and safety factors of 1.125, 1.0 and 1.8 respectively, for collapse, burst and tension.
3. Products are available plain end and with IPSCO's premium connects QB1 and QB2.
4. As a service, IPSCO offers casing string designs upon request.

The information and data contained herein are accurate to our knowledge, based upon standard industry calculations. Buyers are encouraged to make their own evaluations of the above derived performance properties for their particular use. The specific warranty applicable to these goods is as contained in IPSCO's Order Acknowledgment, Conditions of Sale.



P.O. Box 18  
Camanche, Iowa 52730  
Phone: (563) 242-0000  
Toll Free: 1-800-950-4772

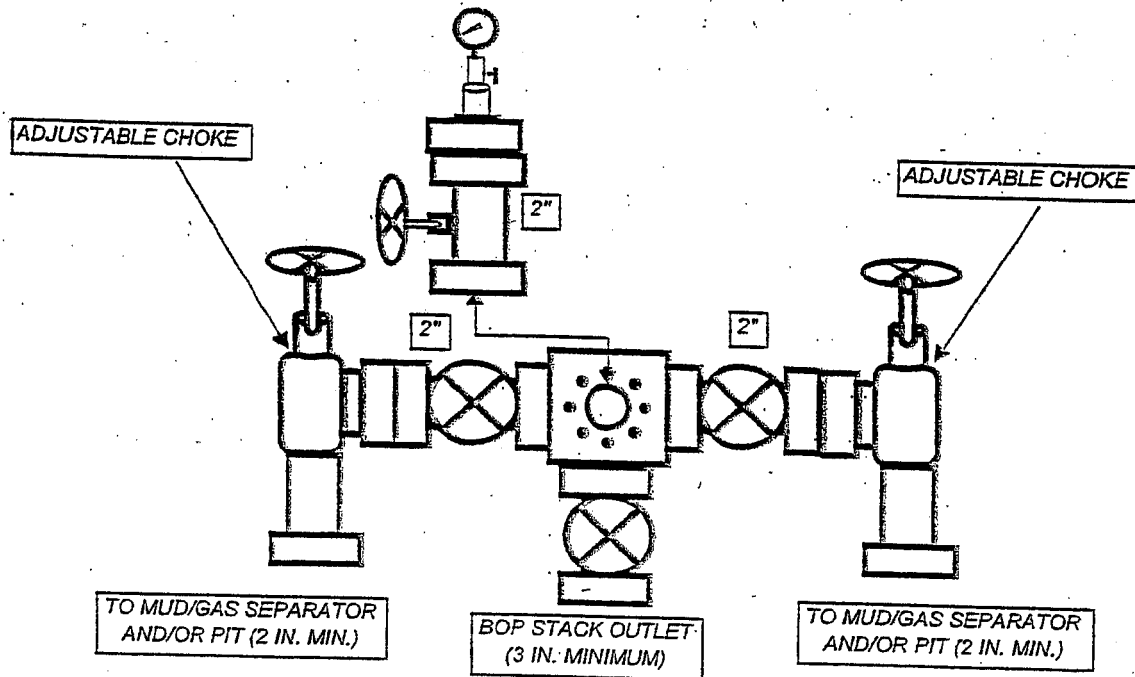
400 505-3rd Street SW  
Calgary, Alberta T2P 3E6  
Phone: (403) 543-8000  
Toll Free: 1-877-780-7560

P.O. Box 1670  
Regina, Saskatchewan S4P 3C7  
Phone: (306) 924-7700  
Toll Free: 1-800-667-1616



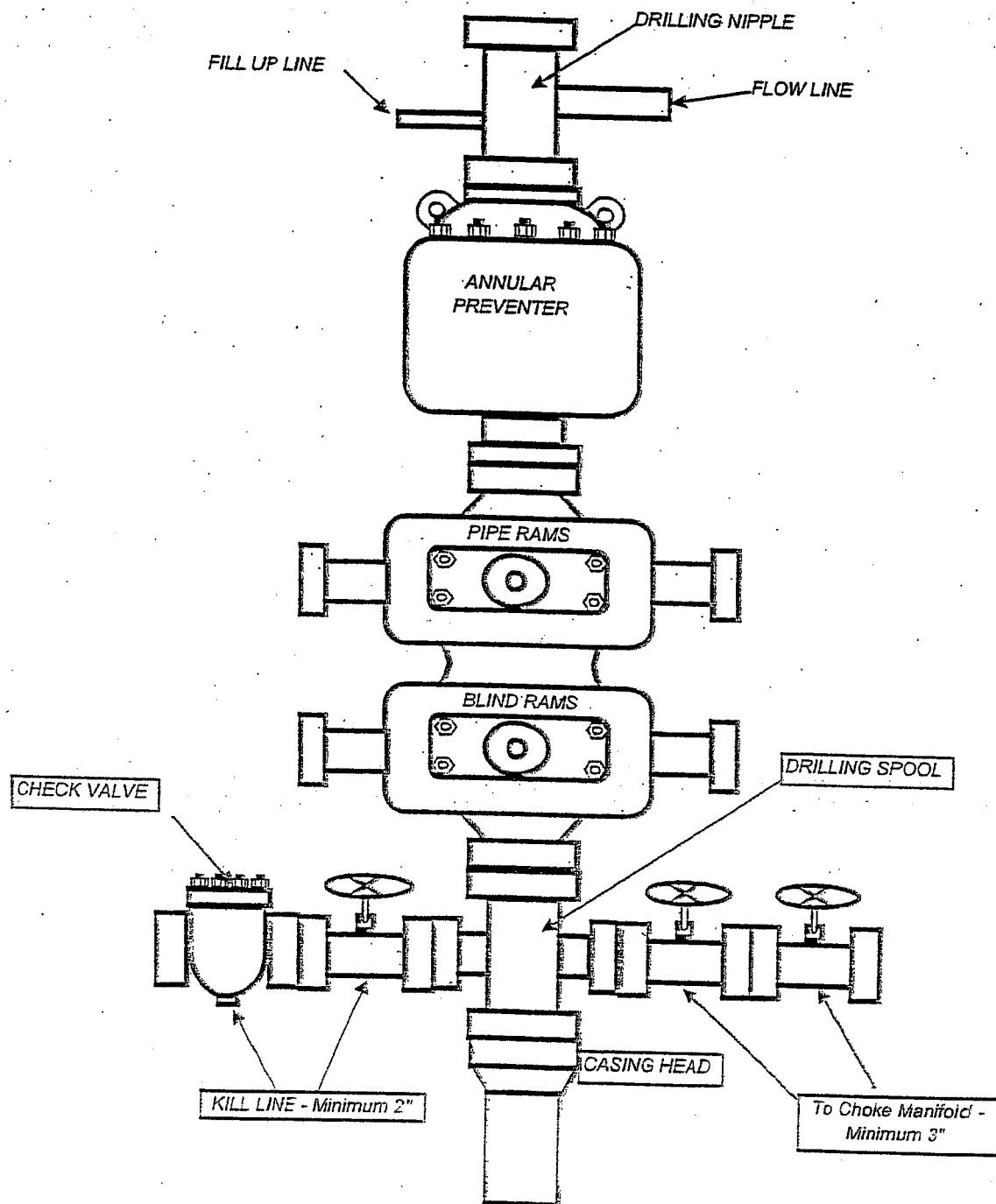
# BILL BARRETT CORPORATION

## TYPICAL 3,000 p.s.i. CHOKE MANIFOLD



# BILL BARRETT CORPORATION

## TYPICAL 3,000 p.s.i. BLOWOUT PREVENTER



**Surface Use Plan for  
Bill Barrett Corporation's  
Development Program  
Lake Canyon Area  
Duchesne County, Utah**

**1. Existing Roads:**

The Lake Canyon area is located approximately 12 miles southwest of Duchesne, Utah and extends from Township 3 South, Range 10 West to Township 5 South, Range 6 West. The specific location of a particular well pad will be shown on maps and described in the site specific APD.

The use of Skitzzy Road is necessary to access the area. Improvements to Skitzzy Road and other existing access roads will be noted in the site specific APD's.

**2. Planned Access Roads:**

Descriptions of new access road(s) will be included in the site specific APD.

Surface disturbance and vehicular traffic will be limited to the approved location and approved access route. Any additional area needed will be approved in advanced with the UDWR

**3. Location of Tank Batteries, Production Facilities, and Production Gathering And Service Lines:**

The following guidelines will apply if the well is productive:

All permanent (on site for six months or longer) structures constructed or installed will conform to DOGM standards. All facilities will be painted within six months of installation.

A containment dike will be constructed completely around production facilities which contain fluids (i.e., production tanks, produced water tanks). This dike will be constructed of compacted subsoil, be impervious, and hold a minimum of 110% of the capacity of the largest tank. Topsoil will not be used for the construction of dike(s).

A description of the proposed pipeline and a map illustrating the proposed route will be submitted with the well site specific APD.

4. **Location and Type of Water Supply**

The Duchesne City Culinary Water Dock located in section 1, T4S-R5W will be used for water supply for drilling and completion operations. Additional water supply sources will be addressed in the site specific APD, indicating the location and type of water supply.

5. **Source of Construction Materials:**

All construction materials for this location site and access road shall be borrowed (local) material accumulated during construction of the location site and access road. No construction materials will be removed from UDWR lands. If any gravel is used, it will be obtained from an approved gravel pit.

6. **Methods of Handling Waste Materials:**

Drill cuttings will be contained and buried in the reserve pit.

Drilling fluids, including any salts and chemicals, will be contained in the reserve pit. Upon termination of drilling and completion operations, the liquid contents of the reserve pit will be used at the next drill site or will be removed and disposed of at an approved waste disposal facility within 180 days after drilling is terminated. Immediately upon well completion, any hydrocarbons in the pit shall be removed.

Unless otherwise specified in the site specific APD, the reserve pit will be constructed on the location and will not be located within natural drainages, where a flood hazard exists or surface runoff will destroy or damage the pit walls. The reserve pit will be constructed so that it will not allow discharge of liquids.

If it is determined, at the onsite, that a pit liner is necessary, the reserve pit will be lined with a synthetic reinforced liner a minimum of 12-millimeters thick. The liner will overlay a felt-liner pad if rock that might tear or puncture the liner is encountered during excavation. The liner will overlap the pit walls and be covered with dirt and/or rocks to hold it in place. Trash, scrap pipe, etc. that could puncture the liner will not be disposed of in the pit. Pit walls will be sloped no greater than 2:1. A minimum 2-foot freeboard will be maintained in the pit at all times during the drilling and completion operations. The pit liner will be protected during drilling and completion operations.

Production fluids will be contained in leak-proof tanks. All production fluids will be sold, recycled, or disposed of at approved disposal sites.

Any spills of oil, gas, salt water, or other noxious fluids will be immediately cleaned up and removed to an approved disposal site.

A chemical self-contained sanitary-toilet will be onsite during drilling and completions.

Garbage, trash, and other waste materials will be collected in a portable, self-contained, fully enclosed trash cage during operations. Trash will not be burned on location.

All debris and other waste materials not contained in the trash cage will be cleaned up and removed from the location immediately after removal of the drilling rig.

Any open pits will be fenced during the operations. The reserve pit fencing will be on three sides before drilling operations start. The fourth side will be fenced as soon as drilling is completed and the rig is removed. The fencing will be maintained until such time as the pits are backfilled.

7. **Ancillary Facilities:**

Garbage containers and portable toilets are the only ancillary facilities proposed. No additional ancillary facilities are foreseen in the future.

8. **Wellsite Layout:**

A location layout diagram describing drill pad cross-sections, cuts and fills, and locations of mud tanks, reserve pit, flare pit, pipe racks, trailer parking, spoil dirt stockpile(s), and the surface materials stockpile(s) will be included with the site specific APD and developed through a consultant.

9. **Plans for Restoration of the Surface:**

The dirt contractor will be provided with an approved copy of the surface use plan and these Standard Operating Procedures prior to commencing construction activities.

Immediately upon well completion, the location and surrounding area will be cleared of all unused tubing, materials, trash, and debris not required for production. All reclamation standards will be developed between Bill Barrett Corporation (BBC) and UDWR. Abandoned well sites, roads, and other disturbed areas will be restored as near as practical to their original condition. Where applicable, these conditions may include the re-establishment of irrigation systems, the re-establishment of appropriate soil conditions, and the re-establishment of vegetation as specified.

All disturbed areas will be re-contoured to the approximate natural contours.

Any drainage rerouted during the construction activities shall be restored as near

as possible to its original line of flow.

Prior to backfilling the reserve pit, the fence surrounding the reserve pit will be removed. The pit liner will be cut off at the water or mud line and disposed of at an approved landfill site. The remaining liner will be torn and perforated after the pit dries and prior to backfilling the reserve pit.

Before any dirt work associated with reserve pit restoration takes place, the reserve pit shall be as dry as possible. All debris in it will be removed. Other waste and spoil materials will be disposed of immediately upon completion of operations. The reserve pit will be reclaimed within 180 days from the date of well completion, weather permitting, unless it is determined that this location will be utilized to drill additional wells within 1 year of completing operations.

After the reserve pit has been reclaimed, diversion ditches and water bars will be used to divert precipitation runoff/runoff as appropriate.

Prior to the construction of the location, the top 6 inches or maximum available topsoil material will be stripped and stockpiled. Placement of the topsoil will be noted on the location plat attached to the site specific APD. Topsoil shall be stockpiled separately from subsoil materials. Topsoil salvaged from the reserve pit shall be stockpiled separately near the reserve pit. When all drilling and completion activities have been completed, the unused portion of the location (area outside the deadmen) will be recontoured and the stockpiled topsoil spread over the area.

If topsoil must be stored for more than one year:

It shall be windrowed on the uphill side of the location to prevent any possible contamination. All topsoil will be stockpiled for reclamation in such a way as to prevent soil loss and contamination.

It shall be broadcast seeded with the prescribed seed mixture immediately after windrowing. Seed will be drilled on the contour to an appropriate depth and the stockpile then "walked" with a dozer to cover the seed and roughen the soil to prevent erosion.

Mulching may be considered to enhance the re-establishment of desired native plant communities. If straw or hay mulch is used, the straw and hay must be certified to be weed-free and the documentation submitted prior to usage.

When restoration activities have been completed, the location site and new access road cuts and shoulders shall be reseeded. Prior to reseeding, all disturbed areas, including the old access road will be scarified and left with a rough surface.

UDWR shall be contacted for the required seed mixture. Seed will be drilled on

the contour to an appropriate depth. If broadcast seeded, the amount of seed mixture per acre will be doubled, and a harrow or some other implement will be dragged over the seeded area to assure coverage of the seeds.

At final abandonment, BBC will follow UT-DOGM standards for final well abandonment.

**10. Other Information:**

The operator is fully responsible for the actions of its subcontractors. A copy of these conditions will be furnished to the BBC field representative to ensure compliance.

The operator will control noxious weeds along applied access road authorizations, pipeline route authorizations, well sites or other applicable facilities

Wells drilled during the fire season (June – October) all appropriate precautions shall be instituted to ensure that fire hazard is minimized, including, but not limited to, controlling vegetation and keeping fire fighting equipment readily available during all drilling and completion operations.

Drilling rigs and/or equipment used during drilling operations on locations will not be stacked or stored on UDWR administered lands after the conclusion of drilling operations or at any other time without permission by the UDWR. If UDWR permission is obtained, such storage will only be temporary measure.

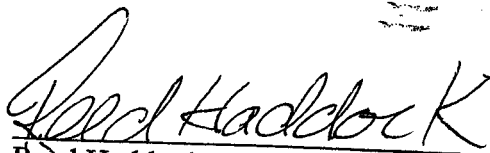
Travel will be restricted to approved travel routes.

**11. CERTIFICATION**

Reed Haddock  
Bill Barrett Corporation  
1099 18<sup>th</sup> Street, Suite 2300  
Denver, CO 80202

Phone: 303-312-8546  
Fax: 303-291-0420

I hereby certify that I, or persons under my direct supervision, have inspected the proposed drill site and access route; that I am familiar with the conditions which currently exist; that the statements made in this plan are, to the best of my knowledge, true and correct; and that the work associated with operations proposed herein will be performed by Bill Barrett Corporation and its contractors and subcontractors in conformity with this plan and the terms and conditions under which it is approved. This statement is subject to the provisions of 18 U.S.C. 1001 for the filing of a false statement.



Reed Haddock  
Permit Analyst

DATE: February 27, 2007

12. **Bill Barrett Corporation and UDWR Contacts:**

**BBC Representatives:**

Reed Haddock, Regulatory and Permitting; Phone: (303) 312-8546  
Scot Donato, Environmental Health and Safety; Phone: (303) 312-8191  
Monty Shed, Field Operations; Phone: (307) 262-1511

**UDWR Representatives:**

Ben Williams, UDWR, Wildlife Resources; Phone: (435) 781-5357  
Bill James, UDWR, Wildlife Resources, Manager; Phone: (801) 538-4745



# BILL BARRETT CORPORATION

**#5-21-46 DLB**

LOCATED IN UINTAH COUNTY, UTAH  
SECTION 21, T4S, R6W, U.S.B.&M.

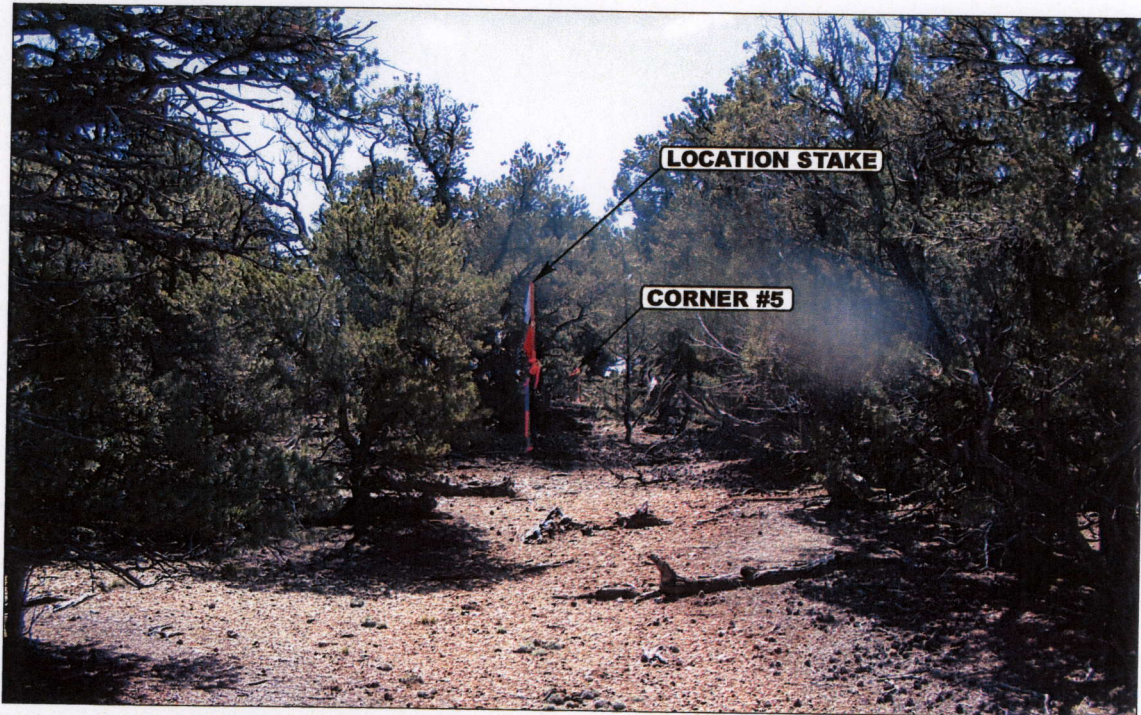


PHOTO: VIEW OF LOCATION STAKE TO CORNER #5

CAMERA ANGLE: SOUTHERLY



PHOTO: VIEW FROM BEGINNING OF PROPOSED ACCESS

CAMERA ANGLE: NORTHEASTERLY



- Since 1964 -

**UELS** Uintah Engineering & Land Surveying  
85 South 200 East Vernal, Utah 84078  
435-789-1017 uels@uelsinc.com

**LOCATION PHOTOS**

**04 23 07**  
MONTH DAY YEAR

**PHOTO**

TAKEN BY: D.R.

DRAWN BY: A.A.

REVISED: 00-00-00





# BILL BARRETT CORPORATION

## TYPICAL CROSS SECTIONS FOR

#5-21-46 DLB

SECTION 21, T4S, R6W, U.S.B.&M.

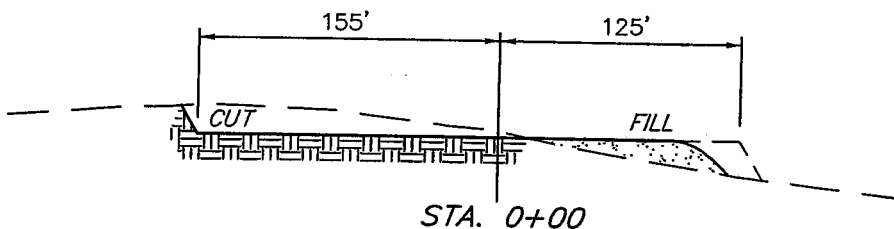
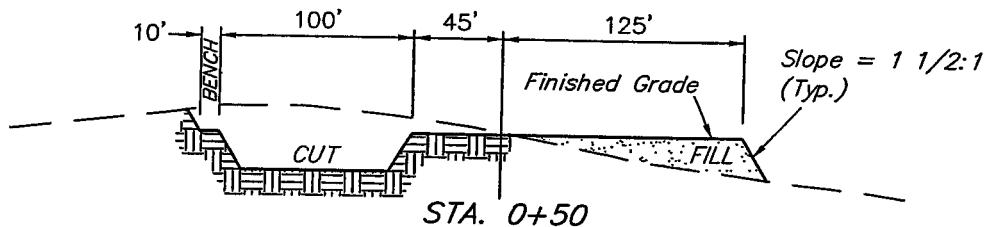
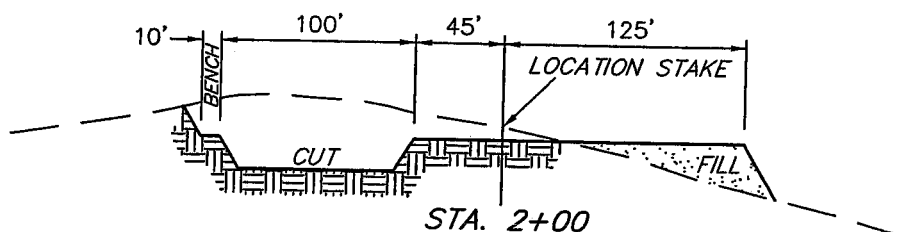
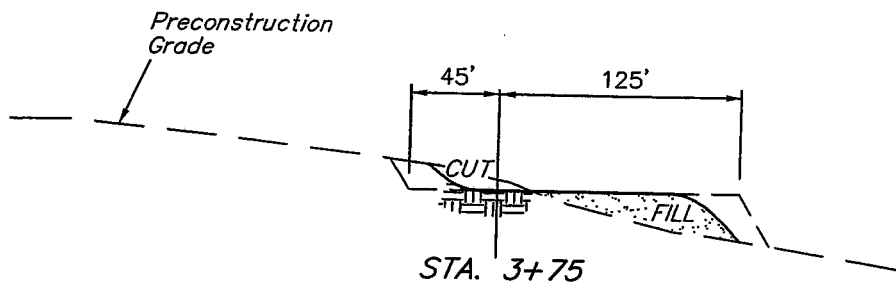
1500' FNL 1200' FWL

FIGURE #2

1" = 40'  
X-Section  
Scale  
1" = 100'

DATE: 04-20-07

DRAWN BY: P.M.



### NOTE:

Topsoil should not be Stripped Below Finished Grade on Substructure Area.

### \* NOTE:

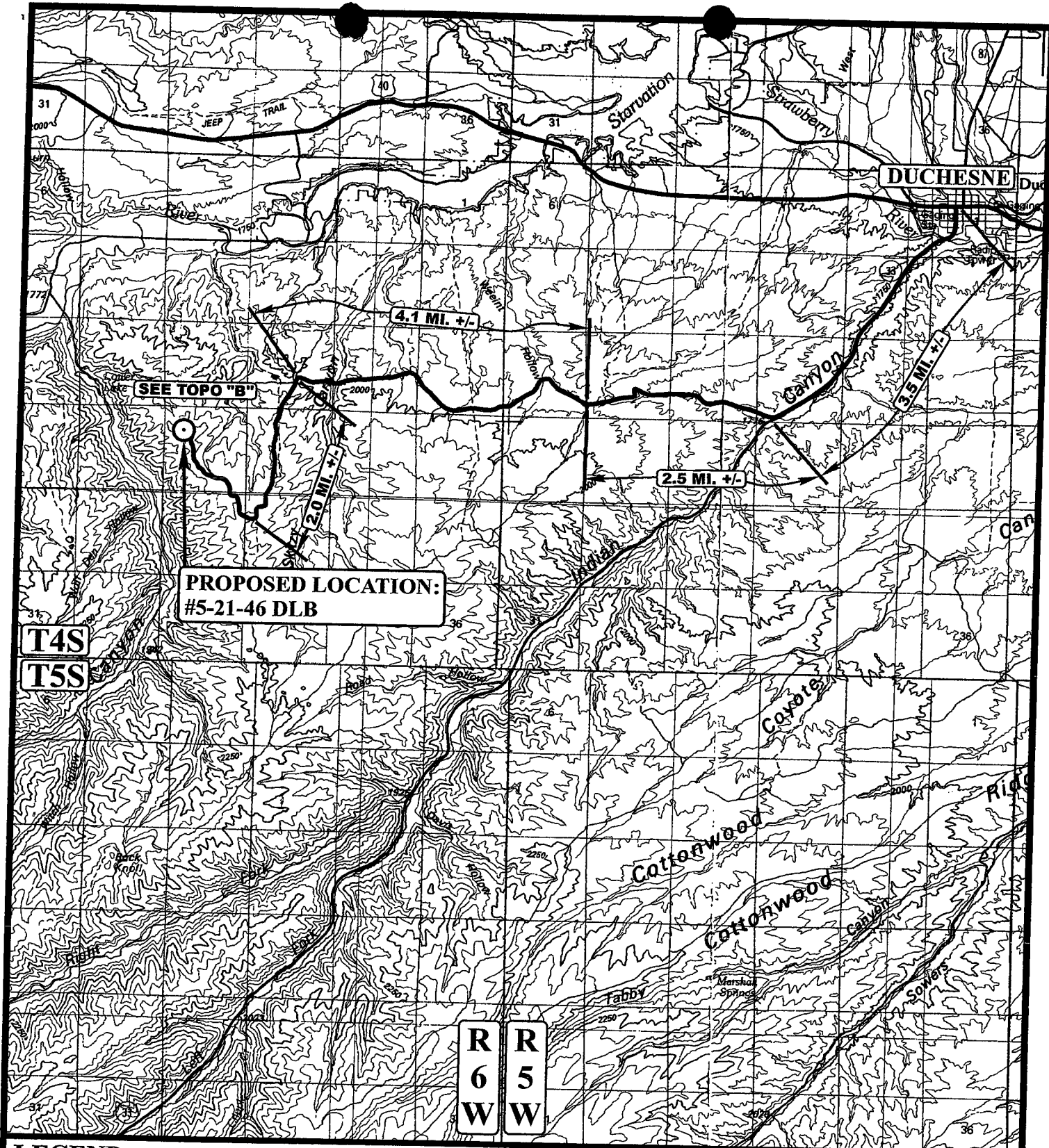
FILL QUANTITY INCLUDES 5% FOR COMPACTION

### APPROXIMATE YARDAGES

CUT	
(12") Topsoil Stripping	= 4,110 Cu. Yds.
Remaining Location	= 13,300 Cu. Yds.
<b>TOTAL CUT</b>	<b>= 17,410 CU.YDS.</b>
<b>FILL</b>	<b>= 10,840 CU.YDS.</b>

EXCESS MATERIAL	= 6,570 Cu. Yds.
Topsoil & Pit Backfill (1/2 Pit Vol.)	= 6,570 Cu. Yds.
EXCESS UNBALANCE (After Interim Rehabilitation)	= 0 Cu. Yds.

UINTAH ENGINEERING & LAND SURVEYING  
85 So. 200 East \* Vernal, Utah 84078 \* (435) 789-1017



# **LEGEND:**

○ PROPOSED LOCATION

N

**BILL BARRETT CORPORATION**

#5-21-46 DLB

SECTION 21, T4S, R6W, U.S.B.&M.

1500' FNL 1200' FWL



Uintah Engineering & Land Surveying  
85 South 200 East Vernal, Utah 84078  
(435) 789-1017 \* FAG (435) 789-1813

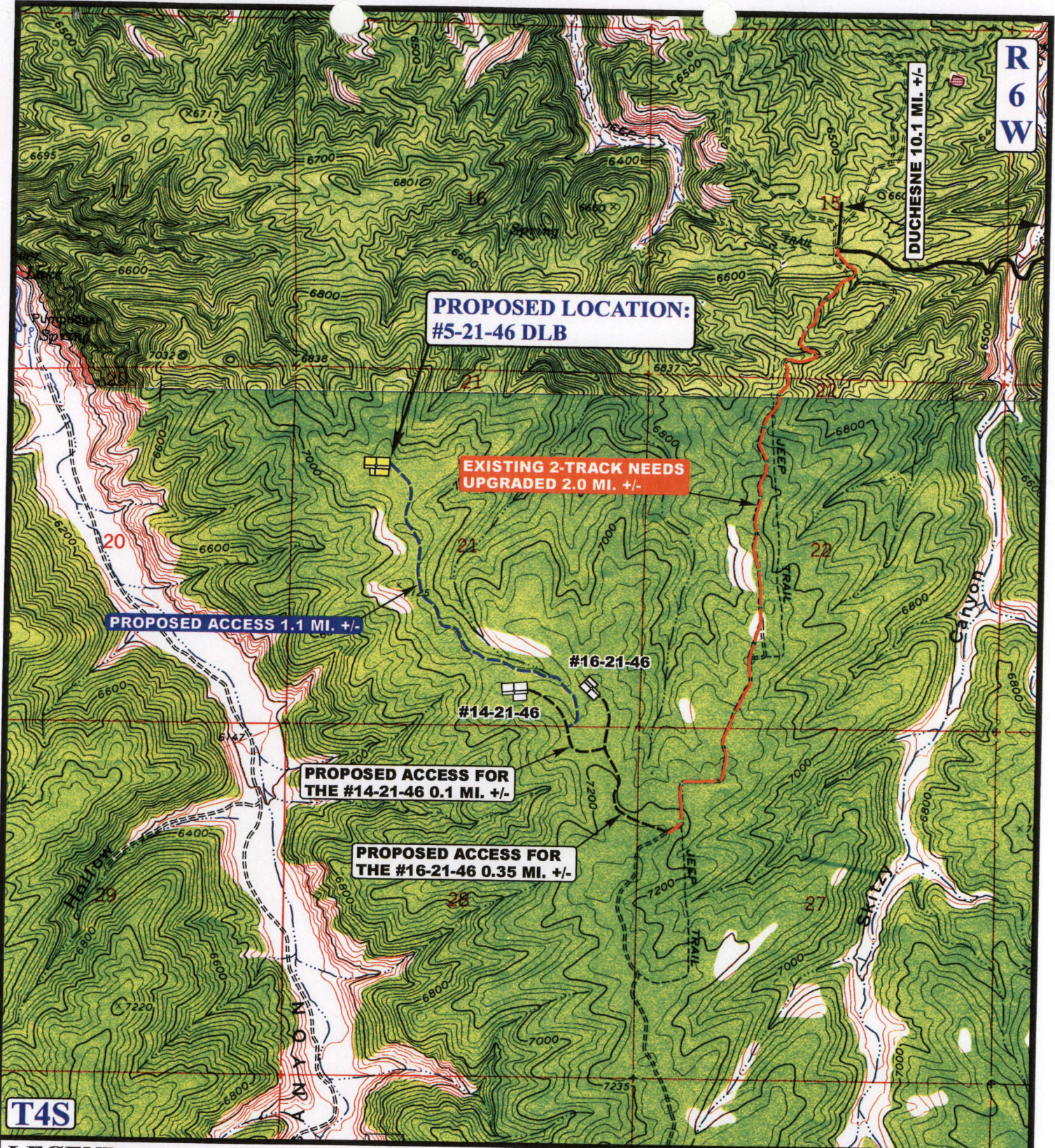
TOPOGRAPHIC  
MAP

04 23 07  
MONTH DAY YEAR

SCALE: 1:100,000 DRAWN BY: A.A. REVISED: 00-00-00

**A**  
TOPO





**PROPOSED LOCATION:  
#5-21-46 DLB**

**EXISTING 2-TRACK NEEDS  
UPGRADED 2.0 MI. +/-**

**PROPOSED ACCESS 1.1 MI. +/-**

**PROPOSED ACCESS FOR  
THE #14-21-46 0.1 MI. +/-**

**PROPOSED ACCESS FOR  
THE #16-21-46 0.35 MI. +/-**

**T4S**

**LEGEND:**

- PROPOSED ACCESS ROAD**
- EXISTING 2-TRACK NEEDS UPGRADED**



**BILL BARRETT CORPORATION**

**#5-21-46 DLB  
SECTION 21, T4S, R6W, U.S.B.&M.  
1500' FNL 1200' FWL**



**Utah Engineering & Land Surveying**  
85 South 200 East Vernal, Utah 84078  
(435) 789-1017 \* FAX (435) 789-1813

**TOPOGRAPHIC  
MAP**

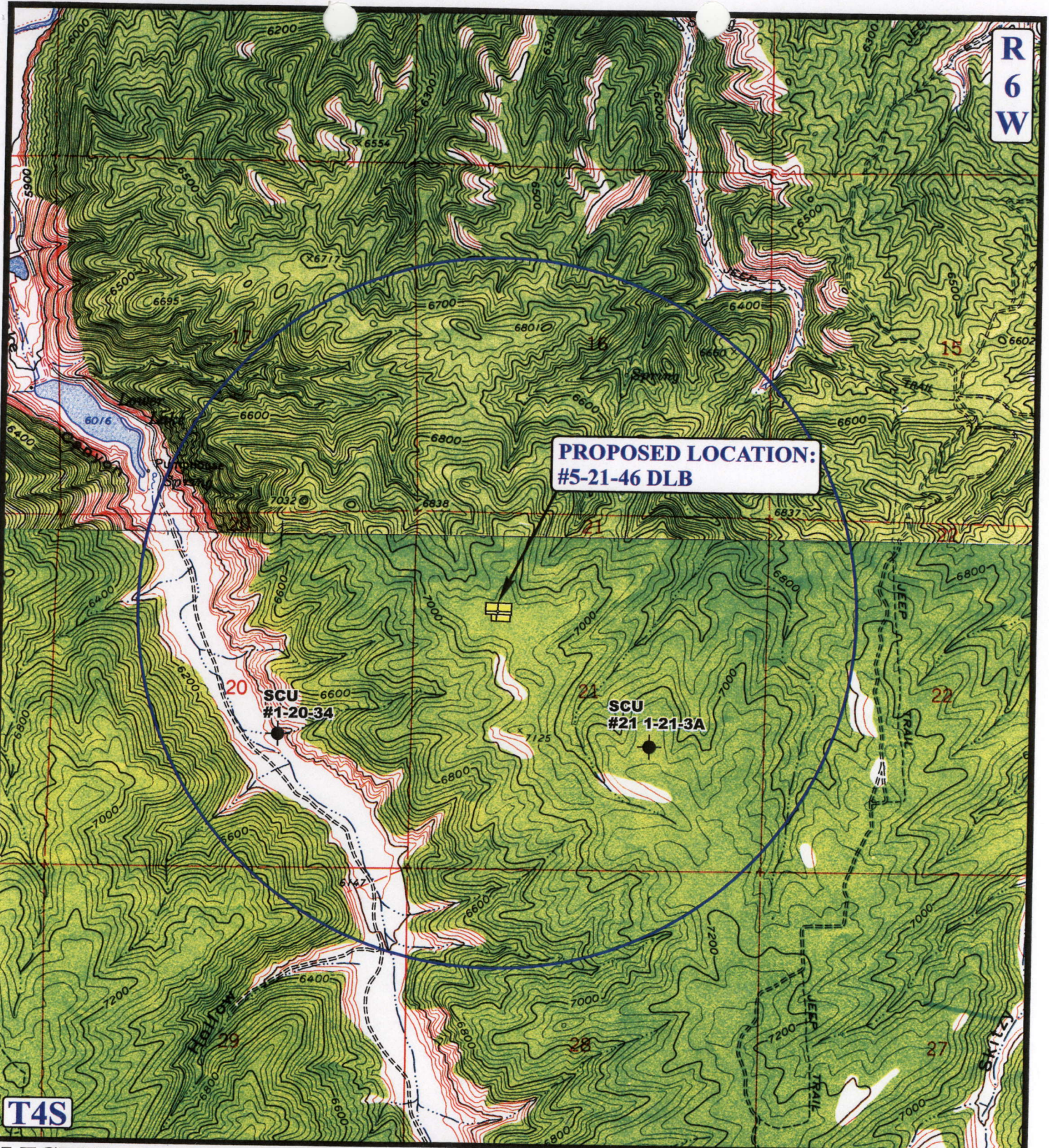
**04 23 07**  
MONTH DAY YEAR

SCALE: 1" = 2000' DRAWN BY: A.A. REVISED: 00-00-00

**B**  
TOPO



R  
6  
W



**PROPOSED LOCATION:  
#5-21-46 DLB**

**SCU  
#1-20-34**

**SCU  
#21 1-21-3A**

**T4S**

**LEGEND:**

- |                   |                         |
|-------------------|-------------------------|
| ⊗ DISPOSAL WELLS  | ⊗ WATER WELLS           |
| ● PRODUCING WELLS | ● ABANDONED WELLS       |
| ● SHUT IN WELLS   | ● TEMPORARILY ABANDONED |

**BILL BARRETT CORPORATION**

**#5-21-46 DLB  
SECTION 21, T4S, R6W, U.S.B.&M.  
1500' FNL 1200' FWL**



**Utah Engineering & Land Surveying**  
85 South 200 East Vernal, Utah 84078  
(435) 789-1017 \* FAX (435) 789-1813

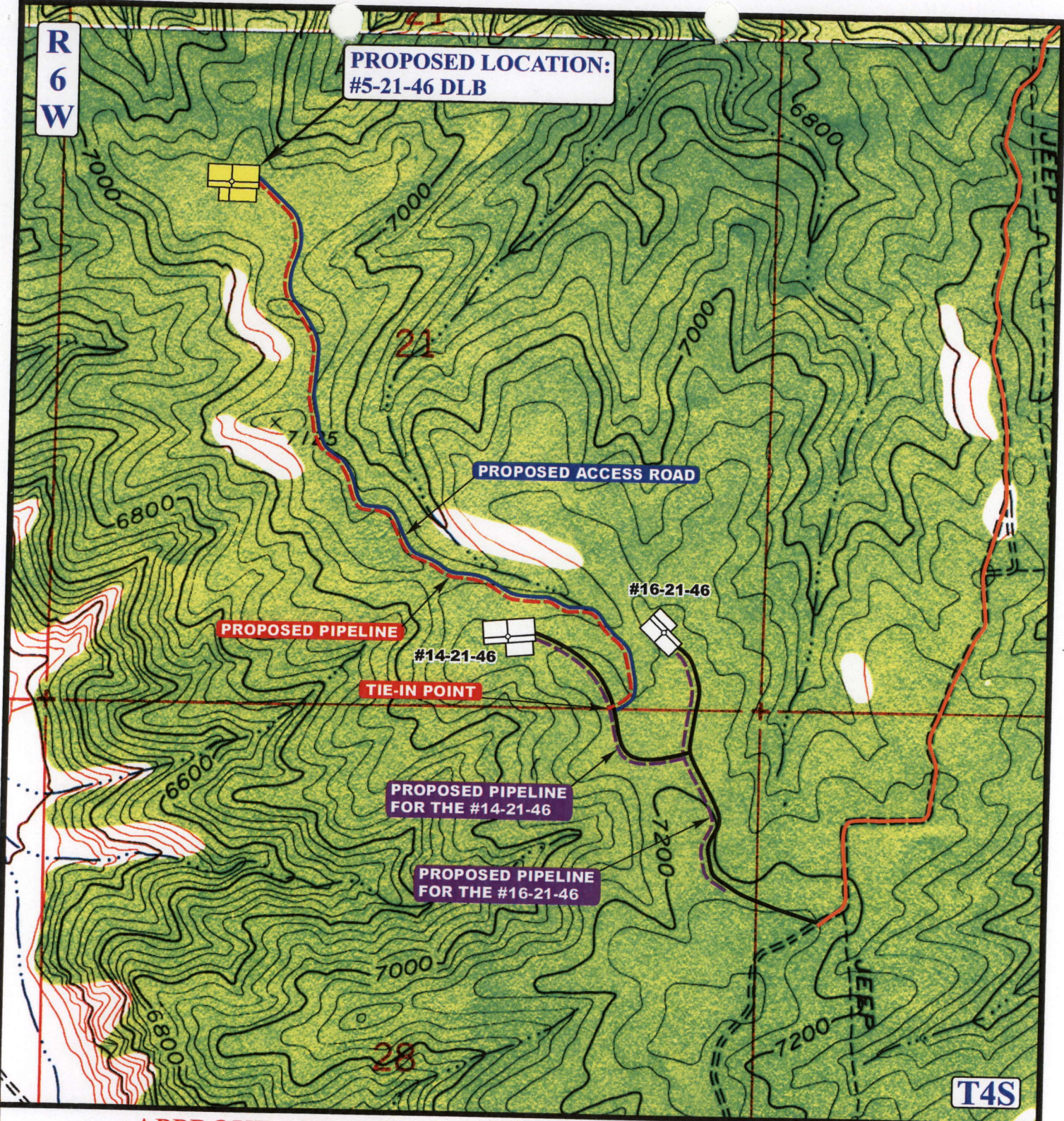


<b>TOPOGRAPHIC MAP</b>	<b>04</b>	<b>23</b>	<b>07</b>	<b>C TOPO</b>
	MONTH	DAY	YEAR	
SCALE: 1" = 2000'		DRAWN BY: A.A.		REVISED: 00-00-00



R  
6  
W

PROPOSED LOCATION:  
#5-21-46 DLB



APPROXIMATE TOTAL PIPELINE DISTANCE = 5,521' +/-

LEGEND:

- PROPOSED ACCESS ROAD
- EXISTING PIPELINE
- PROPOSED PIPELINE
- PROPOSED PIPELINE (SERVICING OTHER WELLS)



Uintah Engineering & Land Surveying  
85 South 200 East Vernal, Utah 84078  
(435) 789-1017 \* FAX (435) 789-1813



BILL BARRETT CORPORATION

#5-21-46 DLB  
SECTION 21, T4S, R6W, U.S.B.&M.  
1500' FNL 1200' FWL

TOPOGRAPHIC  
MAP

04 23 07  
MONTH DAY YEAR

SCALE: 1" = 1000'

DRAWN BY: A.A.

REVISED: 00-00-00

D  
TOPO



**WORKSHEET**  
**APPLICATION FOR PERMIT TO DRILL**

APD RECEIVED: 05/15/2007

API NO. ASSIGNED: 43-013-33658

WELL NAME: 5-21-46- DLB

OPERATOR: BILL BARRETT CORP ( N2165 )

PHONE NUMBER: 303-312-8546

CONTACT: REED HADDOCK

PROPOSED LOCATION:

SWNW 21 040S 060W

SURFACE: 1500 FNL 1200 FWL

BOTTOM: 1980 FNL 0660 FWL

COUNTY: DUCHESNE

LATITUDE: 40.12192 LONGITUDE: -110.5720

UTM SURF EASTINGS: 536471 NORTHINGS: 4441166

FIELD NAME: ALTAMONT ( 55 )

INSPECT LOCATN BY: / /

Tech Review	Initials	Date
Engineering		
Geology		
Surface		

LEASE TYPE: 2 - Indian

LEASE NUMBER: 14-20-H62-5500

SURFACE OWNER: 2 - Indian

PROPOSED FORMATION: NHORN

COALBED METHANE WELL? NO

RECEIVED AND/OR REVIEWED:

☒ Plat  
☒ Bond: Fed[] Ind[2] Sta[] Fee[]  
(No. WYB000040 )  
☒ Potash (Y/N)  
☒ Oil Shale 190-5 (B) or 190-3 or 190-13  
☒ Water Permit  
(No. MUNICIPAL )  
☒ RDCC Review (Y/N)  
(Date: )  
☒ Fee Surf Agreement (Y/N)  
☒ Intent to Commingle (Y/N)

LOCATION AND SITING:

\_\_\_\_\_ R649-2-3.

Unit: \_\_\_\_\_

\_\_\_\_\_ R649-3-2. General

Siting: 460 From Qtr/Qtr & 920' Between Wells

\_\_\_\_\_ R649-3-3. Exception

\_\_\_\_\_ Drilling Unit

Board Cause No: \_\_\_\_\_

Eff Date: \_\_\_\_\_

Siting: \_\_\_\_\_

☒ R649-3-11. Directional Drill

COMMENTS: \_\_\_\_\_

STIPULATIONS: \_\_\_\_\_

1- Seismic Approval  
2- Spacing Strip



## ALTAMONT FIELD





**State of Utah**

**Department of  
Natural Resources**

MICHAEL R. STYLER  
*Executive Director*

**Division of  
Oil, Gas & Mining**

JOHN R. BAZA  
*Division Director*

JON M. HUNTSMAN, JR.  
*Governor*

GARY R. HERBERT  
*Lieutenant Governor*

May 16, 2007

Bill Barrett Corporation  
1099 18th St., Suite 2300  
Denver, CO 80202

Re: 5-21-46 DLB Well, Surface Location 1500' FNL, 1200' FWL, SW NW,  
Sec. 21, T. 4 South, R. 6 West, Bottom Location 1980' FNL, 660' FWL,  
SW NW, Sec. 21, T. 4 South, R. 6 West, Duchesne County, Utah

Gentlemen:

Pursuant to the provisions and requirements of Utah Code Ann. § 40-6-1 *et seq.*, Utah Administrative Code R649-3-1 *et seq.*, and the attached Conditions of Approval, approval to drill the referenced well is granted.

This approval shall expire one year from the above date unless substantial and continuous operation is underway, or a request for extension is made prior to the expiration date. The API identification number assigned to this well is 43-013-33658.

Sincerely,

Gil Hunt  
Associate Director

pab  
Enclosures

cc: Duchesne County Assessor  
Bureau of Land Management, Vernal Office

Operator: Bill Barrett Corporation  
Well Name & Number 5-21-46 DLB  
API Number: 43-013-33658  
Lease: 14-20-H62-5500

Surface Location: SW NW Sec. 21 T. 4 South R. 6 West  
Bottom Location: SW NW Sec. 21 T. 4 South R. 6 West

**Conditions of Approval**

**1. General**

Compliance with the requirements of Utah Admin. R. 649-1 *et seq.*, the Oil and Gas Conservation General Rules, and the applicable terms and provisions of the approved Application for permit to drill.

**2. Notification Requirements**

Notify the Division within 24 hours of spudding the well.

- Contact Carol Daniels at (801) 538-5284

Notify the Division prior to commencing operations to plug and abandon the well.

- Contact Dustin Doucet at (801) 538-5281

**3. Reporting Requirements**

All required reports, forms and submittals will be promptly filed with the Division, including but not limited to the Entity Action Form (Form 6), Report of Water Encountered During Drilling (Form 7), Weekly Progress Reports for drilling and completion operations, and Sundry Notices and Reports on Wells requesting approval of change of plans or other operational actions.

4. State approval of this well does not supersede the required federal approval, which must be obtained prior to drilling.
5. In accordance with Utah Admin. R. 649-3-11, Directional Drilling, the operator shall submit a complete angular deviation and directional survey report to the Division within 30 days following completion of the well.
6. This proposed well is located in an area for which drilling units (well spacing patterns) have not been established through an order of the Board of Oil, Gas and Mining (the "Board"). In order to avoid the possibility of waste or injury to correlative rights, the operator is requested, once the well has been drilled, completed, and has produced, to analyze geological and engineering data generated therefrom, as well as any similar data from surrounding areas if available. As soon as is practicable after completion of its analysis, and if the analysis suggests an area larger than the quarter-quarter section upon which the well is located is being drained, the operator is requested to seek an appropriate order from the Board establishing drilling and spacing units in conformance with such analysis by filing a Request for Agency Action with the Board.



**Bill Barrett Corporation**

July 13, 2007

Utah Division of Oil, Gas and Mining  
P.O. Box 145801  
1594 West North Temple, Suite 1210  
Salt Lake City, Utah 84114-5801

43-013-53658

# 5-21-46 BTR

**Tribal Surface Owner (Ute Indians)/Tribal Minerals**  
SWNW, Section 21-T4S-R6W  
Duchesne County, Utah

Diana Mason, Permitting - Petroleum Technician:

Enclosed please find a copy of Montgomery Archeological "Cultural Resource Inventory of Bill Barrett Corporation's Proposed # 5-21-46 DLB DLB Pipeline Extension, Duchesne County, Utah". The report dated July 7, 2007, states "no historic properties affected" the site (MOCA Report No. 07-105b).

Please contact me at (303) 312-8546 if you need anything additional or have any questions.

Sincerely,

Reed Haddock  
Permit Analyst

Enclosures

1099 18TH STREET  
SUITE 2300  
DENVER, CO 80202  
P 303.293.9100  
F 303.291.0420

**CULTURAL RESOURCE INVENTORY  
OF BILL BARRETT CORPORATION'S  
PROPOSED #5-21-46 DLB PIPELINE EXTENSION,  
DUCHESNE COUNTY, UTAH**

**Jacki A. Montgomery**

**CULTURAL RESOURCE INVENTORY  
OF BILL BARRETT CORPORATION'S  
PROPOSED #5-21-46 DLB PIPELINE EXTENSION,  
DUCHESNE COUNTY, UTAH**

**By:**

**Jacki A. Montgomery**

**Prepared For:**

**Ute Indian Tribe  
Uintah and Ouray Agency**

**Prepared Under Contract With:**

**Bill Barrett Corporation  
1099 18<sup>th</sup> Street, Suite 2300  
Denver, CO 80202**

**Prepared By:**

**Montgomery Archaeological Consultants, Inc.  
P.O. Box 219  
Moab, Utah 84532**

**MOAC Report No. 07-105b**

**July 7, 2007**

**United States Department of Interior (FLPMA)  
Permit No. 07-UT-60122**

**State of Utah Antiquities Project (Survey)  
Permit No. U-07-MQ-0724i**

**Ute Tribal Permit No. A07-363**

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## INTRODUCTION

A cultural resource inventory was conducted by Montgomery Archaeological Consultants, Inc. (MOAC) in June 2007 for Bill Barrett Corporation's (BBC) proposed #5-21-46 DLB pipeline extension. The project area is located between Lake Canyon and Skitzzy Canyon, southwest of the town of Duchesne, Duchesne County, Utah. The survey was implemented at the request of Mr. Reed Haddock, Bill Barrett Corporation, Denver, Colorado. The project is situated on Ute Tribal land (Uintah and Ouray Agency).

The objective of the inventory was to locate, document, and evaluate any cultural resources within the project area in order to comply with Section 106 of 36 CFR 800, the National Historic Preservation Act of 1966 (as amended). Also, the inventory was implemented to attain compliance with a number of federal and state mandates, including the National Environmental and Policy Act of 1969, the Archaeological and Historic Conservation Act of 1972, the Archaeological Resources Protection Act of 1979, the American Indian Religious Freedom Act of 1978, and the Utah State Antiquities Act of 1973 (amended 1990).

An onsite was conducted on June 5, 2007 for BBC's proposed well locations #5-21-46 DLB and #14-21-46 DLB attended by representatives of MOAC, BBC, and Ute Indian Tribe. During this onsite it was decided that the pipeline for proposed well location #5-21-46 DLB would be extending southeast to the #14-21-46 well location. On June 14, 2007 this pipeline was inventoried by Mark Bond (MOAC) who was accompanied by Johanna Jack (Ute Tribal Technician). The inventory was conducted under the auspices of U.S.D.I. (FLPMA) Permit No. 07-UT-60122, State of Utah Antiquities Permit (Survey) No. U-07-MQ-0724i, and Ute Tribal Permit No. A07-363 issued to MOAC Archaeological Consultants, Moab, Utah.

A file search for previous archaeological projects and cultural resources was conducted by Marty Thomas at the Division of State History, Salt Lake City, on March 22, 2007. This consultation indicated that several cultural resource inventories have been conducted in the vicinity of the current project area. However, no previously recorded archaeological sites occur in the current inventory area.

In 1986, Sagebrush Archaeological Consultants conducted an inventory of a powerline for Moon Lake Electric Association; no cultural resources were found (Polk 1986). In 2005, MOAC conducted a cultural resource inventory of Bill Barrett Corporation's Lake Canyon 3D seismic program (Montgomery and Freudenberg 2005). The inventory resulted in the documentation of seven historic sites (42Dc2035-42Dc2041) consisting of homesteads, habitations, a temporary camp, a brush corral, and trash scatters; none of which occur within the current project area. Also in 2005, MOAC conducted a cultural resource inventory of 737 acres near Skitzzy Canyon for the State of Utah Division of Wildlife Resources (Montgomery and Simon 2005). The inventory resulted in the documentation of three historic sites (42Dc1992-42Dc1994) consisting of a gilsonite mine, a camp, and a trash scatter. None of these sites occur within the current project area. In 2006, MOAC surveyed Bill Barrett Corporation's seven proposed Lake Canyon well locations, which resulted in the documentation of no archaeological sites (Montgomery 2006). Also in 2006, An Independent Archaeologist inventoried a proposed Lake Canyon access road for Berry Petroleum Company resulting in no cultural resources (Truesdale 2006). In 2007, MOAC inventoried Bill Barrett Corporation's proposed #16-20-46 DLB, #5-21-46 DLB, #14-21-46 DLB, #14-22-46 DLB, #14-33-46 DLB, #16-33-46 DLB, and #14-34-46 DLB well locations (Jendresen 2007). The inventory resulted in the location of a historic brush corral (42Dc2301) evaluated as not eligible to the NRHP. Because the site occurs on Ute lands, the access and pipeline were rerouted around the site.

## DESCRIPTION OF PROJECT AREA

The project area lies between Lake Canyon and Skitzzy Canyon, south of the Strawberry River, Duchesne County, Utah. The proposed pipeline for BBC's #5-21-46 DLB extends along a ridge just east of Lake Canyon in Township 4S, Range 6W, Section 21 (Figure 1).

The project area lies within the Uinta Basin physiographic unit, a distinctly bowl-shaped geologic structure (Stokes 1986:231). The Uinta Basin ecosystem is within the Green River drainage, and is the northernmost extension of the Colorado Plateau. Geologically, the area consists of the Tertiary age Uinta formation, which is basically "gravel, sand and silt washed south off the Uinta Mountains" (Chronic 1990:45). The area is characterized by steep-sided narrow ridges and benches dissected by intermittent drainages. Outcrops of the Uinta formation are characterized by a dense dendritic drainage pattern and topographic relief. This Eocene-age formation occurs as fluvial deposited interbedded sandstone and mudstone and is well-known for its fossil vertebrates.

Specifically, the project area lies between Lake Canyon and Skitzzy Canyon, south of the Strawberry River. The elevation averages 7080 ft asl. Soils consist of yellow-brown fine sands in alluvial deposits more than one meter in depth. The project area is in the Upper Sonoran lifezone, and vegetation communities include the pinyon-juniper woodland, sagebrush, rabbitbrush, shadscale, cheatgrass, Indian ricegrass, prickly pear, hedgehog yucca, Indian paintbrush, and barrel cactus. Modern impacts include ranching activities, roads, recreational activities, and oil and gas development.

## SURVEY METHODOLOGY

An intensive pedestrian survey was performed for this project which is considered 100% coverage. The proposed pipeline corridor was surveyed to a width of 31 m (100 ft) by the archaeologist walking parallel transects spaced no more than 10 m (33 ft) apart. Ground visibility was considered good. A total of 11.2 acres was surveyed for cultural resources on Ute Tribal lands (Uintah and Ouray Agency).

## RESULTS AND RECOMMENDATIONS

The inventory of Bill Barrett Corporation's proposed pipeline for #5-21-46 DLB well location resulted in the location of a previously documented historic brush corral (42Dc2301) evaluated as not eligible to the NRHP. At the request of the Ute Indian Tribe, this cultural resource will be avoided by the undertaking. Based on the findings, a determination of "no historic properties affected" is recommended for the undertaking pursuant to Section 106, CFR 800.



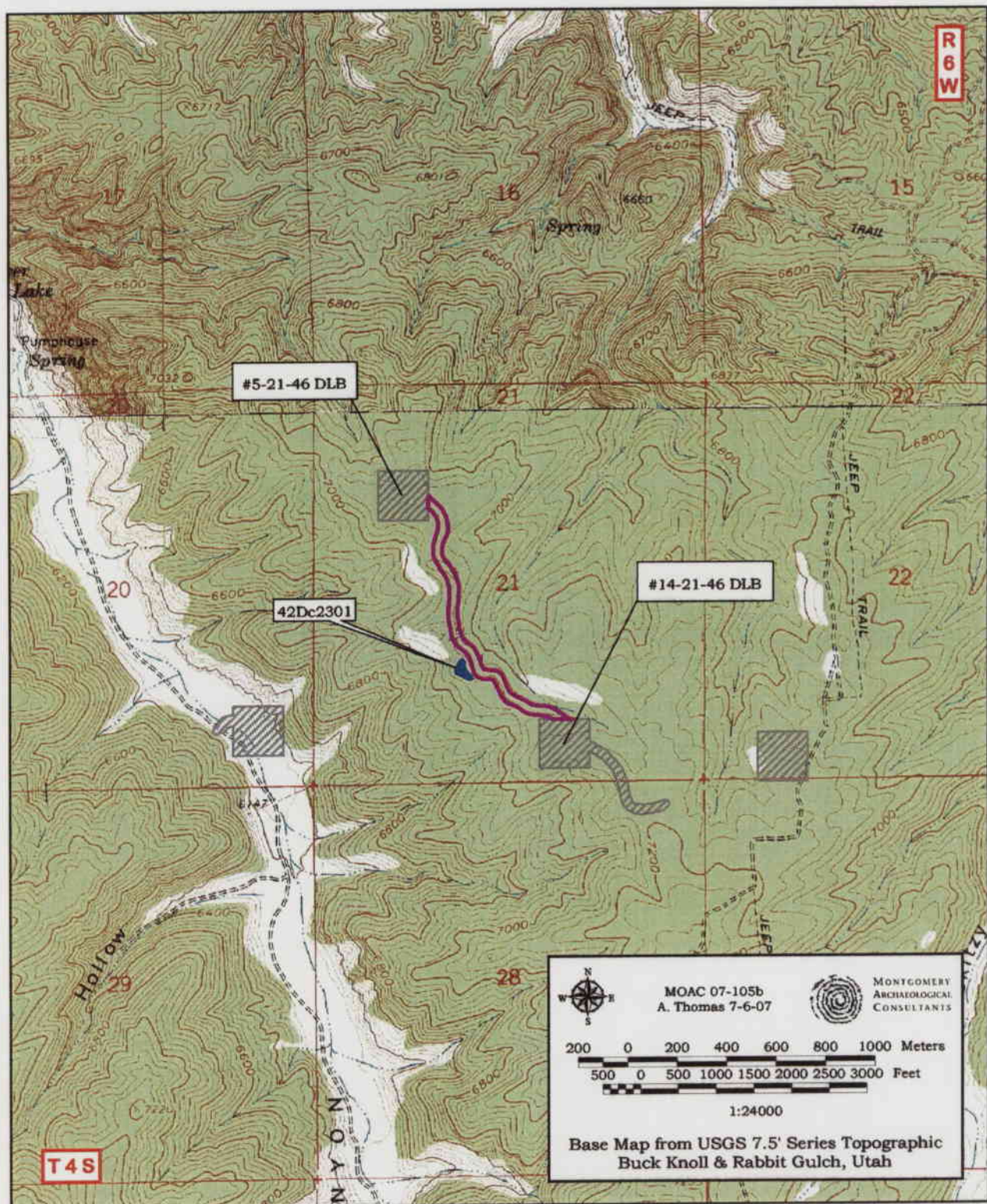


Figure 1. Bill Barrett Corporation's Proposed Pipeline for #5-21-46 DLB Showing Cultural Resource, Duchesne County, Utah.

## REFERENCES CITED

- Chronic, H.  
1990      *Roadside Geology of Utah*. Mountain Press, Missoula, Montana.
- Jendresen, A.  
2007      Cultural Resource Inventory of Bill Barrett Corporation's Seven Proposed DLB Well Locations (T4S, R6W, Sec. 20, 21, 22, 34 and T5S R6W, Sec. 4), Duchesne County, Utah. Montgomery Archaeological Consultants, Moab, Utah. Report No. U-07-MQ-0423i,s.
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- Montgomery, J.A., and K. Freudenberg  
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- Stokes, W.L.  
1986      *Geology of Utah*. Utah Museum of Natural History and Utah Geological and Mineral Survey. Salt Lake City.
- Truesdale, J.A.  
2006      Berry Petroleum Company, Lake Canyon Road: A Cultural Resource Inventory for a Oil and Gas Field Access on Tribal Lands, Uintah-Ouray Ute Reservation, Duchesne County, Utah. An Independent Archaeologist, Laramie, Wyoming. Report No. U-06-AY-1429i.

RECEIVED  
VERNAL FIELD OFFICE  
Form 3160-3  
(April 2004)  
2007 MAY 14 PM 2:34  
DEPT. OF THE INTERIOR  
BUREAU OF LAND MGMT.

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL OR REENTER

FORM APPROVED  
OMB No. 1004-0137  
Expires March 31, 2007

1a. Type of work: <input checked="" type="checkbox"/> DRILL <input type="checkbox"/> REENTER		5. Lease Serial No. <b>BIA 14-20-H62-5500</b>
1b. Type of Well: <input type="checkbox"/> Oil Well <input checked="" type="checkbox"/> Gas Well <input type="checkbox"/> Other <input checked="" type="checkbox"/> Single Zone <input type="checkbox"/> Multiple Zone		6. If Indian, Allottee or Tribe Name <b>UTE INDIAN TRIBE</b>
2. Name of Operator <b>BILL BARRETT CORPORATION</b>		7. If Unit or CA Agreement, Name and No. <b>N/A</b>
3a. Address <b>1099 18th Street, Suite 2300 Denver CO 80202</b>	3b. Phone No. (include area code) <b>(303) 312-8546</b>	8. Lease Name and Well No. <b># 5-21-46 DLB</b>
4. Location of Well (Report location clearly and in accordance with any State requirements.) At surface <b>SWNW, 1500' FNL, 1200' FWL</b> At proposed prod. zone <b>SWNW, 1980' FNL, 660' FWL</b>		9. API Well No. <b>Pending 43.013.33658</b>
14. Distance in miles and direction from nearest town or post office* <b>Approximately 12.1 miles southwest of Duchesne, Utah</b>		10. Field and Pool, or Exploratory <b>Altamont</b>
15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any) <b>1500' SHL; 660' BHL</b>		11. Sec., T. R. M. or Blk. and Survey or Area <b>Section 21-T4S-R6W U.S.B.&amp;M.</b>
16. No. of acres in lease <b>N/A</b>		12. County or Parish <b>Duchesne</b>
17. Spacing Unit dedicated to this well <b>40</b>		13. State <b>UT</b>
18. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft. <b>3000' (abandoned well)</b>		20. BLM/BIA Bond No. on file <b>Nationwide Bond #WYB000040</b>
19. Proposed Depth <b>9588'</b>		21. Elevations (Show whether DF, KDB, RT, GL, etc.) <b>7098' ungraded ground</b>
22. Approximate date work will start* <b>07/01/2007</b>		23. Estimated duration <b>45 days</b>

24. Attachments

The following, completed in accordance with the requirements of Onshore Oil and Gas Order No.1, shall be attached to this form:

- |   |  |
|---|--|
| 1. Well plat certified by a registered surveyor.  | 4. Bond to cover the operations unless covered by an existing bond on file (see Item 20 above).    |
| 2. A Drilling Plan.   | 5. Operator certification  |
| 3. A Surface Use Plan (if the location is on National Forest System Lands, the SUPO shall be filed with the appropriate Forest Service Office). | 6. Such other site specific information and/or plans as may be required by the authorized officer. |

25. Signature <i>Reed Haddock</i>	Name (Printed/Typed) <b>Reed Haddock</b>	Date <b>05/14/2007</b>
Title <b>Permit Analyst</b>		

Approved by (Signature) <i>[Signature]</i>	Name (Printed/Typed) <b>John Kewick</b>	Date <b>7-27-2007</b>
Title <b>Assistant Field Manager Lands &amp; Mineral Resources</b>		Office <b>VERNAL FIELD OFFICE</b>

Application approval does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.  
Conditions of approval, if any, are attached.

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

\*(Instructions on page 2)

NOTICE OF APPROVAL

CONDITIONS OF APPROVAL ATTACHED

RECEIVED

JUL 31 2007

DIV. OF OIL, GAS & MINING



UNITED STATES DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT  
VERNAL FIELD OFFICE

170 South 500 East VERNAL, UT 84078 (435) 781-4400



**CONDITIONS OF APPROVAL FOR APPLICATION FOR PERMIT TO DRILL**

Company: Bill Barrett Corp.  
Well No: 5-21-46 DLB  
API No: 43-013-33658

Location: SWNW, Sec. 21, T4S, R6W  
Lease No: 14-20-H62-5500  
Agreement: N/A

Title	Name	Office Phone Number	Cell Phone Number
Petroleum Engineer:	Matt Baker	435-781-4490	435-828-4470
Petroleum Engineer:	Michael Lee	435-781-4432	435-828-7875
Petroleum Engineer:	James Ashley	435-781-4470	435-828-7874
Petroleum Engineer:	Ryan Angus	435-781-4430	435-828-7368
Supervisory Petroleum Technician:	Jamie Sparger	435-781-4502	435-828-3913
NRS/Enviro Scientist:	Paul Buhler	435-781-4475	435-828-4029
NRS/Enviro Scientist:	Karl Wright	435-781-4484	
NRS/Enviro Scientist:	Holly Villa	435-781-4404	
NRS/Enviro Scientist:	Chuck MacDonald	435-781-4441	
NRS/Enviro Scientist:	Jannice Cutler	435-781-3400	
NRS/Enviro Scientist:	Michael Cutler	435-781-3401	
NRS/Enviro Scientist:	Anna Figueroa	435-781-3407	
NRS/Enviro Scientist:	Verlyn Pindell	435-781-3402	
NRS/Enviro Scientist:	Darren Williams	435-781-4447	
NRS/Enviro Scientist:	Nathan Packer	435-781-3405	

After Hours Contact Number: 435-781-4513 Fax: 435-781-4410

**A COPY OF THESE CONDITIONS SHALL BE FURNISHED TO YOUR  
FIELD REPRESENTATIVE TO INSURE COMPLIANCE**

All lease and/or unit operations are to be conducted in such a manner that full compliance is made with the applicable laws, regulations (43 CFR Part 3160), and this approved Application for Permit to Drill including Surface and Downhole Conditions of Approval. The operator is considered fully responsible for the actions of his subcontractors. A copy of the approved APD must be on location during construction, drilling, and completion operations. **This permit is approved for a two (2) year period, or until lease expiration, whichever occurs first.** An additional extension, up to two (2) years, may be applied for by sundry notice prior to expiration.

**NOTIFICATION REQUIREMENTS**

- |  |  |
|--|--|
| Location Construction<br>(Notify NRS/Enviro Scientist)                     | - Forty-Eight (48) hours prior to construction of location and access roads.   |
| Location Completion<br>(Notify NRS/Enviro Scientist)                       | - Prior to moving on the drilling rig.   |
| Spud Notice<br>(Notify Petroleum Engineer)                                 | - Twenty-Four (24) hours prior to spudding the well.   |
| Casing String & Cementing<br>(Notify Supervisory Petroleum Technician)     | - Twenty-Four (24) hours prior to running casing and cementing all casing strings.   |
| BOP & Related Equipment Tests<br>(Notify Supervisory Petroleum Technician) | - Twenty-Four (24) hours prior to initiating pressure tests.   |
| First Production Notice<br>(Notify Petroleum Engineer)                     | - Within Five (5) business days after new well begins or production resumes after well has been off production for more than ninety (90) days. |



***SURFACE USE PROGRAM  
CONDITIONS OF APPROVAL (COAs)***

**General Surface COAs**

- If there is an active Gilsonite mining operation within 2 miles of the well location, operator shall notify the Gilsonite operator at least 48 hours prior to any blasting during construction.
- If paleontological materials are uncovered during construction, the operator is to immediately stop work and contact the Authorized Officer AO. A report will be prepared by a BLM permitted paleontologist and submitted to the AO at the completion of surface disturbing activities.

**Specific Surface COAs**

- A 5537.95' by 30' foot corridor right-of-way shall be approved. Upon completion of each pipeline in corridor, they shall be identified and filed with the Ute Tribe.
- A qualified Archaeologist accompanied by a Tribal Technician will monitor trenching construction of pipeline.
- The Ute Tribe Energy & Minerals Department is to be notified, in writing 48 hours prior to construction of pipeline.
- Construction Notice shall be given to the department on the Ute Tribe workdays, which are Monday through Thursday. The Company understands that they may be responsible for costs incurred by the Ute Tribe after hours.
- The Company shall inform contractors to maintain construction of pipelines within the approved ROWs.
- The Company shall assure the Ute Tribe that "ALL CONTRACTORS, INCLUDING SUB-CONTRACTORS, LEASING CONTRACTORS, AND ETC." have acquired a current and valid Ute Tribal Business License and have "Access Permits" prior to construction, and will have these permits in all vehicles at all times.
- You are hereby notified that working under the "umbrella" of a company does not allow you to be in the field, and can be subject to those fines of the Ute Tribe Severance Tax Ordinance.
- Any deviation of submitted APDs and ROW applications the Companies will notify the Ute Tribe and BIA in writing and will receive written authorization of any such change with appropriate authorization.
- The Company will implement "Safety and Emergency Plan." The Company's safety director will ensure its compliance.
- All Company employees and/or authorized personnel (sub-contractors) in the field will have approved applicable APDs and/or ROW permits/authorizations on their person(s) during all phases of construction.

- All vehicular traffic, personnel movement, construction/restoration operations shall be confined to the area examined and approved, and to the existing roadways and/or evaluated access routes.
- All personnel shall refrain from collecting artifacts, any paleontological fossils, and from disturbing any significant cultural resources in the area.
- The personnel from the Ute Tribe Energy & Minerals Department shall be notified shall cultural remains from subsurface deposits be exposed or identified during construction. All construction will cease.
- All mitigative stipulations contained in the Bureau of Indian Affairs Site Specific Environmental Assessment (EA) will be strictly adhered.
- Upon completion of Application for Corridor Right-Way, the company will notify the Ute Tribe Energy & Minerals Department, so that a Tribal Technician can verify Affidavit of Completion.
- Paint tanks Olive Black.
- Install culvert at pipeline tie-in on main road.
- Stockpile trees removed for pad construction between pad corners 2, 6, and 8.
- No disturbance beyond buffer flags in order to protect historic corral site adjacent to authorized access road.

## **DOWNHOLE CONDITIONS OF APPROVAL**

### **SITE SPECIFIC DOWNHOLE CONDITIONS OF APPROVAL**

- Use 1" tubing to cement top 100 feet of surface casing with class G neat cement (1.18 cubic feet per sack).
- The top of the production casing cement shall extend a minimum of 200 feet above the 9 5/8 inch surface casing shoe.
- All casing strings below the conductor shall be pressure tested to 0.22 psi/ft or 1500 psi, whichever is greater, but not to exceed 70% of the internal yield strength of the casing.

**All provisions outlined in Onshore Oil & Gas Order #2 Drilling Operations shall be strictly adhered to.** The following items are emphasized:

### **DRILLING/COMPLETION/PRODUCING OPERATING STANDARDS**

- The spud date and time shall be reported orally to Vernal Field Office within 24 hours of spudding.
- Notify Vernal Field Office Supervisory Petroleum Engineering Technician at least 24 hours in advance of casing cementing operations and BOPE & casing pressure tests.
- Blowout prevention equipment BOPE shall remain in use until the well is completed or abandoned. Closing unit controls shall remain unobstructed and readily accessible at all times. Choke manifolds shall be located outside of the rig substructure.
- All BOPE components shall be inspected daily and those inspections shall be recorded in the daily drilling report. Components shall be operated and tested as required by Onshore Oil & Gas Order No. 2 to insure good mechanical working order. All BOPE pressure tests shall be performed by a test pump with a chart recorder and **NOT** by the rig pumps. Test shall be reported in the driller's log.
- BOP drills shall be initially conducted by each drilling crew within 24 hours of drilling out from under the surface casing and weekly thereafter as specified in Onshore Oil & Gas Order No. 2.
- Casing pressure tests are required before drilling out from under all casing strings set and cemented in place.
- No aggressive/fresh hard-banded drill pipe shall be used within casing.
- **Cement baskets shall not be run on surface casing.**
- The operator must report all shows of water or water-bearing sands to the BLM. If flowing water is encountered it must be sampled, analyzed, and a copy of the analyses submitted to the BLM Vernal Field Office.
- The operator must report encounters of all non oil & gas mineral resources such as Gilsonite, tar sands, oil shale, trona, etc. to the Vernal Field Office, in writing, within 5

working days of each encounter. Each report shall include the well name/number, well location, date and depth from KB or GL of encounter, vertical footage of the encounter and, the name of the person making the report along with a telephone number should the BLM need to obtain additional information.

- A complete set of angular deviation and directional surveys of a directional well will be submitted to the Vernal BLM office engineer within 30 days of the completion of the well.
- Chronologic drilling progress reports shall be filed directly with the BLM, Vernal Field Office on a weekly basis in sundry, letter format or e-mail to the Petroleum Engineers until the well is completed.
- A cement bond log CBL will be run from the production casing shoe to the top of cement and shall be utilized to determine the bond quality for the production casing. Submit a field copy of the CBL to this office.
- **Please submit an electronic copy of all other logs run on this well in LAS format to UT\_VN\_Welllogs@BLM.gov. This submission will supersede the requirement for submittal of paper logs to the BLM.**
- There shall be no deviation from the proposed drilling, completion, and/or workover program as approved. Safe drilling and operating practices must be observed. Any changes in operation must have prior approval from the BLM Vernal Field Office.



## OPERATING REQUIREMENT REMINDERS:

- All wells, whether drilling, producing, suspended, or abandoned, shall be identified in accordance with 43 CFR 3162.6. There shall be a sign or marker with the name of the operator, lease serial number, well number, and surveyed description of the well.
- In accordance with 43 CFR 3162.4-3, this well shall be reported on the "Monthly Report of Operations" Oil and Gas Operations Report OGOR starting with the month in which operations commence and continue each month until the well is physically plugged and abandoned. This report shall be filed in duplicate, directly with the Minerals Management Service, P.O. Box 17110, Denver, Colorado 80217-0110, or call 1-800-525-7922 303 231-3650 for reporting information.
- Should the well be successfully completed for production, the BLM Vernal Field office must be notified when it is placed in a producing status. Such notification will be by written communication and must be received in this office by not later than the fifth business day following the date on which the well is placed on production. The notification shall provide, as a minimum, the following informational items:
  - Operator name, address, and telephone number.
  - Well name and number.
  - Well location  $\frac{1}{4}$   $\frac{1}{4}$ , Sec., Twn, Rng, and P.M..
  - Date well was placed in a producing status date of first production for which royalty will be paid.
  - The nature of the well's production, i.e., crude oil, or crude oil and casing head gas, or natural gas and entrained liquid hydrocarbons.
  - The Federal or Indian lease prefix and number on which the well is located; otherwise the non-Federal or non-Indian land category, i.e., State or private.
  - Unit agreement and/or participating area name and number, if applicable.
  - Communitization agreement number, if applicable.
- Any venting or flaring of gas shall be done in accordance with Notice to Lessees NTL 4A and needs prior approval from the BLM Vernal Field Office.
- All undesirable events fires, accidents, blowouts, spills, discharges as specified in NTL 3A will be reported to the BLM, Vernal Field Office. Major events, as defined in NTL3A, shall be reported verbally within 24 hours, followed by a written report within 15 days. "Other than Major Events" will be reported in writing within 15 days. "Minor Events" will be reported on the Monthly Report of Operations and Production.
- Whether the well is completed as a dry hole or as a producer, "Well Completion and Recompletion Report and Log" BLM Form 3160-4 shall be submitted not later than 30 days after completion of the well or after completion of operations being performed, in accordance with 43 CFR 3162.4-1. Two copies of all logs run, core descriptions, and all other surveys or data obtained and compiled during the drilling, workover, and/or completion operations, shall be filed on BLM Form 3160-4. Submit with the well completion report a geologic report including, at a minimum, formation tops, and a summary and conclusions. Also include deviation surveys,

sample descriptions, strip logs, core data, drill stem test data, and results of production tests if performed. Samples cuttings, fluid, and/or gas shall be submitted only when requested by the BLM, Vernal Field Office.

- All off-lease storage, off-lease measurement, or commingling on-lease or off-lease, shall have prior written approval from the BLM Vernal Field Office.
- Oil and gas meters shall be calibrated in place prior to any deliveries. The BLM Vernal Field Office Petroleum Engineers will be provided with a date and time for the initial meter calibration and all future meter proving schedules. A copy of the meter calibration reports shall be submitted to the BLM Vernal Field Office. All measurement facilities will conform to the API standards for liquid hydrocarbons and the AGA standards for natural gas measurement. All measurement points shall be identified as the point of sale or allocation for royalty purposes.
- A schematic facilities diagram as required by Onshore Oil & Gas Order No. 3 shall be submitted to the BLM Vernal Field Office within 30 days of installation or first production, whichever occurs first. All site security regulations as specified in Onshore Oil & Gas Order No. 3 shall be adhered to. All product lines entering and leaving hydrocarbon storage tanks will be effectively sealed in accordance with Onshore Oil & Gas Order No. 3.
- Any additional construction, reconstruction, or alterations of facilities, including roads, gathering lines, batteries, etc., which will result in the disturbance of new ground, shall require the filing of a suitable plan and need prior approval of the BLM Vernal Field Office. Emergency approval may be obtained orally, but such approval does not waive the written report requirement.
- No location shall be constructed or moved, no well shall be plugged, and no drilling or workover equipment shall be removed from a well to be placed in a suspended status without prior approval of the BLM Vernal Field Office. If operations are to be suspended for more than 30 days, prior approval of the BLM Vernal Field Office shall be obtained and notification given before resumption of operations.
- Pursuant to Onshore Oil & Gas Order No. 7, this is authorization for pit disposal of water produced from this well for a period of 90 days from the date of initial production. A permanent disposal method must be approved by this office and in operation prior to the end of this 90-day period. In order to meet this deadline, an application for the proposed permanent disposal method shall be submitted along with any necessary water analyses, as soon as possible, but no later than 45 days after the date of first production. Any method of disposal which has not been approved prior to the end of the authorized 90-day period will be considered as an Incident of Noncompliance and will be grounds for issuing a shut-in order until an acceptable manner for disposing of said water is provided and approved by this office.
- Unless the plugging is to take place immediately upon receipt of oral approval, the Field Office Petroleum Engineers must be notified at least 24 hours in advance of the plugging of the well, in order that a representative may witness plugging operations. If a well is suspended or abandoned, all pits must be fenced immediately until they are backfilled. The "Subsequent Report of Abandonment" Form BLM 3160-5 must be submitted within 30 days after the actual plugging of the well bore, showing location of plugs, amount of cement in each, and amount of casing left in hole, and the current status of the surface restoration.

STATE OF UTAH  
DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF OIL, GAS AND MINING

FORM 9

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.

1. TYPE OF WELL OIL WELL <input type="checkbox"/> GAS WELL <input checked="" type="checkbox"/> OTHER _____		5. LEASE DESIGNATION AND SERIAL NUMBER: BIA 14-20-H62-5500
2. NAME OF OPERATOR: BILL BARRETT CORPORATION		6. IF INDIAN, ALLOTTEE OR TRIBE NAME: UTE INDIAN TRIBE
3. ADDRESS OF OPERATOR: 1099 18TH Street, Ste 2300 CITY DENVER STATE CO ZIP 80202		7. UNIT or CA AGREEMENT NAME: N/A
4. LOCATION OF WELL FOOTAGES AT SURFACE: 1500' FNL x 1200' FWL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: SWNW 21 T4S R6W		8. WELL NAME and NUMBER: # 5-21-46 DLB 9. API NUMBER: 4301333658
		10. FIELD AND POOL, OR WILDCAT: ALTAMONT
		COUNTY: DUCHESNE STATE: UTAH

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION		
<input checked="" type="checkbox"/> NOTICE OF INTENT (Submit in Duplicate) Approximate date work will start: _____	<input type="checkbox"/> ACIDIZE <input type="checkbox"/> ALTER CASING <input type="checkbox"/> CASING REPAIR <input type="checkbox"/> CHANGE TO PREVIOUS PLANS <input type="checkbox"/> CHANGE TUBING <input type="checkbox"/> CHANGE WELL NAME <input type="checkbox"/> CHANGE WELL STATUS <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS <input type="checkbox"/> CONVERT WELL TYPE	<input type="checkbox"/> DEEPEN <input type="checkbox"/> FRACTURE TREAT <input type="checkbox"/> NEW CONSTRUCTION <input type="checkbox"/> OPERATOR CHANGE <input type="checkbox"/> PLUG AND ABANDON <input type="checkbox"/> PLUG BACK <input type="checkbox"/> PRODUCTION (START/RESUME) <input type="checkbox"/> RECLAMATION OF WELL SITE <input type="checkbox"/> RECOMPLETE - DIFFERENT FORMATION	<input type="checkbox"/> REPERFORATE CURRENT FORMATION <input type="checkbox"/> SIDETRACK TO REPAIR WELL <input type="checkbox"/> TEMPORARILY ABANDON <input type="checkbox"/> TUBING REPAIR <input type="checkbox"/> VENT OR FLARE <input type="checkbox"/> WATER DISPOSAL <input type="checkbox"/> WATER SHUT-OFF <input checked="" type="checkbox"/> OTHER: <u>APD EXTENSION</u>
<input type="checkbox"/> SUBSEQUENT REPORT (Submit Original Form Only) Date of work completion: _____			

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

BILL BARRETT CORPORATION (BBC) REQUESTS A ONE-YEAR EXTENSION ON THE APD FOR THIS LOCATION. THE ORIGINAL APD WAS APPROVED ON MAY 16, 2007 AND EXPIRES MAY 16, 2008.

Approved by the  
Utah Division of  
Oil, Gas and Mining

Date: 05-06-08  
By: [Signature]

COPY SENT TO OPERATOR

Date: 5.7.2008  
Initials: KS

NAME (PLEASE PRINT) <u>REED HADDOCK</u>	TITLE <u>PERMIT ANALYST</u>
SIGNATURE <u>[Signature]</u>	DATE <u>5/1/2008</u>

(This space for State use only)

RECEIVED

MAY 06 2008

DIV. OF OIL, GAS & MINING

**Application for Permit to Drill  
Request for Permit Extension  
Validation**

(this form should accompany the Sundry Notice requesting permit extension)

**API:** 4301333658  
**Well Name:** 5-21-46 DLB  
**Location:** 1500' FNL, 1200' FWL, SWNW, SEC. 21, T4S, R6W  
**Company Permit Issued to:** BILL BARRETT CORPORATION  
**Date Original Permit Issued:** 5/16/2007

The undersigned as owner with legal rights to drill on the property as permitted above, hereby verifies that the information as submitted in the previously approved application to drill, remains valid and does not require revision.

Following is a checklist of some items related to the application, which should be verified.

If located on private land, has the ownership changed, if so, has the surface agreement been updated? Yes ☐ No ☒

Have any wells been drilled in the vicinity of the proposed well which would affect the spacing or siting requirements for this location? Yes ☐ No ☒

Has there been any unit or other agreements put in place that could affect the permitting or operation of this proposed well? Yes ☐ No ☒

Have there been any changes to the access route including ownership, or right-of-way, which could affect the proposed location? Yes ☐ No ☒

Has the approved source of water for drilling changed? Yes ☐ No ☒

Have there been any physical changes to the surface location or access route which will require a change in plans from what was discussed at the onsite evaluation? Yes ☐ No ☒

Is bonding still in place, which covers this proposed well? Yes ☒ No ☐

Renee Haddock  
Signature

5/1/2008  
Date

Title: PERMIT ANALYST

Representing: BILL BARRETT CORPORATION

**RECEIVED**

**MAY 06 2008**

DIV. OF OIL, GAS & MINING

STATE OF UTAH  
DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF OIL, GAS AND MINING

FORM 9

**SUNDRY NOTICES AND REPORTS ON WELLS**

Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.

1. TYPE OF WELL OIL WELL <input type="checkbox"/> GAS WELL <input checked="" type="checkbox"/> OTHER _____		5. LEASE DESIGNATION AND SERIAL NUMBER: BIA 14-20-H62-5500
2. NAME OF OPERATOR: BILL BARRETT CORPORATION		6. IF INDIAN, ALLOTTEE OR TRIBE NAME: UTE INDIAN TRIBE
3. ADDRESS OF OPERATOR: 1099 18TH Street, Ste 2300 CITY Denver STATE CO ZIP 80202		7. UNIT or CA AGREEMENT NAME: N/A
4. LOCATION OF WELL FOOTAGES AT SURFACE: 1500' FNL, 1200' FWL		8. WELL NAME and NUMBER: #5-21-46 DLB
QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: SWNW 21 T4S R6W		9. API NUMBER: 4301333658
COUNTY: DUCHESNE		10. FIELD AND POOL, OR WILDCAT: ALTAMONT
STATE: UTAH		

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION		
<input checked="" type="checkbox"/> NOTICE OF INTENT (Submit in Duplicate) Approximate date work will start: _____	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> REPERFORATE CURRENT FORMATION
	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> SIDETRACK TO REPAIR WELL
	<input type="checkbox"/> CASING REPAIR	<input type="checkbox"/> NEW CONSTRUCTION	<input type="checkbox"/> TEMPORARILY ABANDON
	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> TUBING REPAIR
	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> VENT OR FLARE
<input type="checkbox"/> SUBSEQUENT REPORT (Submit Original Form Only) Date of work completion: _____	<input type="checkbox"/> CHANGE WELL NAME	<input type="checkbox"/> PLUG BACK	<input type="checkbox"/> WATER DISPOSAL
	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> PRODUCTION (START/RESUME)	<input type="checkbox"/> WATER SHUT-OFF
	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input checked="" type="checkbox"/> OTHER: <u>APD EXTENSION</u>
	<input type="checkbox"/> CONVERT WELL TYPE	<input type="checkbox"/> RECOMPLETE - DIFFERENT FORMATION	

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

BILL BARRETT CORPORATION (BBC) REQUESTS AN ADDITIONAL ONE-YEAR EXTENSION ON THE APD FOR THIS LOCATION. THE ORIGINAL APD WAS APPROVED ON MAY 16, 2007, THE PREVIOUS PERMIT EXTENSION WAS FILED ON MAY 1, 2008 AND EXPIRES ON MAY 6, 2009.

Approved by the  
Utah Division of  
Oil, Gas and Mining

**COPY SENT TO OPERATOR**

Date: 5.12.2009

Initials: KS

Date: 05-11-09  
By: [Signature]

NAME (PLEASE PRINT) <u>Matt Barber</u>	TITLE <u>Permit Analyst</u>
SIGNATURE <u>[Signature]</u>	DATE <u>4/30/2009</u>

(This space for State use only)

RECEIVED  
MAY 06 2009

DIV. OF OIL, GAS & MINING



**Application for Permit to Drill  
Request for Permit Extension  
Validation**

(this form should accompany the Sundry Notice requesting permit extension)

**API:** 4301333658  
**Well Name:** #5-21-46 DLB  
**Location:** 1500' FNL, 1200' FWL, SWNW, Sec. 21, T4S-R6W  
**Company Permit Issued to:** Bill Barrett Corporation  
**Date Original Permit Issued:** 5/16/2007

The undersigned as owner with legal rights to drill on the property as permitted above, hereby verifies that the information as submitted in the previously approved application to drill, remains valid and does not require revision.

Following is a checklist of some items related to the application, which should be verified.

If located on private land, has the ownership changed, if so, has the surface agreement been updated? Yes ☐ No ☒

Have any wells been drilled in the vicinity of the proposed well which would affect the spacing or siting requirements for this location? Yes ☐ No ☒

Has there been any unit or other agreements put in place that could affect the permitting or operation of this proposed well? Yes ☐ No ☒

Have there been any changes to the access route including ownership, or right-of-way, which could affect the proposed location? Yes ☐ No ☒

Has the approved source of water for drilling changed? Yes ☐ No ☒

Have there been any physical changes to the surface location or access route which will require a change in plans from what was discussed at the onsite evaluation? Yes ☐ No ☒

- Is bonding still in place, which covers this proposed well? Yes ☒ No ☐

Matt Balun  
Signature

4/30/2009  
Date

Title: Permit Analyst

Representing: Bill Barrett Corporation

RECEIVED  
MAY 06 2009  
DIV. OF OIL, GAS & MINING



# United States Department of the Interior

BUREAU OF LAND MANAGEMENT  
Green River District-Vernal Field Office  
170 South 500 East  
Vernal, UT 84078  
(435) 781-4400 Fax: (435) 781-4410  
<http://www.blm.gov/ut/st/en/fo/vernal.html>

IN REPLY REFER TO:

3160

UTG011

August 6, 2009

Matt Barber  
Bill Barrett Corporation  
1099 18<sup>th</sup> Street, Suite 2300  
Denver, CO 80202

43 013 33658  
Re: Notice of Expiration  
Well No. 5-21-46 DLB  
SWNW, Sec. 21, T4S, R6W  
Duchesne County, Utah  
Lease No. 14-20-H62-5500

Dear Mr. Barber:

The Application for Permit to Drill for the above-referenced well was approved on July 27, 2007. No extension of the original APD was requested. According to our records, no known activity has transpired at the approved location. In view of the foregoing, this office is notifying you that the approval of the referenced application has expired. If you intend to drill at this location in the future, a new Application for Permit to Drill must be submitted.

This office requires a letter confirming that no surface disturbance has been made for this drill site. Any surface disturbance associated with the approved location of this well is to be rehabilitated. A schedule for this rehabilitation must be submitted to this office. Your cooperation in this matter is appreciated.

If you have any questions regarding this matter, please contact me at (435) 781-3428.

Sincerely,

*Robin R. Hansen*

Robin R. Hansen  
Legal Instruments Examiner

cc: UDOGM  
BIA  
Ute Tribe

RECEIVED  
SEP 15 2009  
DIV. OF OIL, GAS & MINING

<b>STATE OF UTAH</b> DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		<b>FORM 9</b>			
<b>SUNDRY NOTICES AND REPORTS ON WELLS</b>  Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.		<b>5. LEASE DESIGNATION AND SERIAL NUMBER:</b> 14-20-H62-5500			
<b>1. TYPE OF WELL</b> Gas Well		<b>6. IF INDIAN, ALLOTTEE OR TRIBE NAME:</b> UTE			
<b>2. NAME OF OPERATOR:</b> BILL BARRETT CORP		<b>7. UNIT or CA AGREEMENT NAME:</b>			
<b>3. ADDRESS OF OPERATOR:</b> 1099 18th Street Ste 2300 , Denver, CO, 80202		<b>8. WELL NAME and NUMBER:</b> 5-21-46- DLB			
<b>4. LOCATION OF WELL</b> <b>FOOTAGES AT SURFACE:</b> 1500 FNL 1200 FWL <b>QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:</b> Qtr/Qtr: SWNW Section: 21 Township: 04.0S Range: 06.0W Meridian: U		<b>9. API NUMBER:</b> 43013336580000			
<b>PHONE NUMBER:</b> 303 312-8128 Ext		<b>9. FIELD and POOL or WILDCAT:</b> ALTAMONT			
<b>COUNTY:</b> DUCHESNE		<b>STATE:</b> UTAH			
<b>11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA</b>					
<b>TYPE OF SUBMISSION</b>	<b>TYPE OF ACTION</b>				
<input checked="" type="checkbox"/> <b>NOTICE OF INTENT</b> Approximate date work will start: 5/6/2010  <input type="checkbox"/> <b>SUBSEQUENT REPORT</b> Date of Work Completion:  <input type="checkbox"/> <b>SPUD REPORT</b> Date of Spud:  <input type="checkbox"/> <b>DRILLING REPORT</b> Report Date:	<table style="width: 100%; border: none;"> <tr> <td style="width: 33%; vertical-align: top;"> <input type="checkbox"/> ACIDIZE  <input type="checkbox"/> CHANGE TO PREVIOUS PLANS  <input type="checkbox"/> CHANGE WELL STATUS  <input type="checkbox"/> DEEPEN  <input type="checkbox"/> OPERATOR CHANGE  <input type="checkbox"/> PRODUCTION START OR RESUME  <input type="checkbox"/> REPERFORATE CURRENT FORMATION  <input type="checkbox"/> TUBING REPAIR  <input type="checkbox"/> WATER SHUTOFF  <input type="checkbox"/> WILDCAT WELL DETERMINATION         </td> <td style="width: 33%; vertical-align: top;"> <input type="checkbox"/> ALTER CASING  <input type="checkbox"/> CHANGE TUBING  <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS  <input type="checkbox"/> FRACTURE TREAT  <input type="checkbox"/> PLUG AND ABANDON  <input type="checkbox"/> RECLAMATION OF WELL SITE  <input type="checkbox"/> SIDETRACK TO REPAIR WELL  <input type="checkbox"/> VENT OR FLARE  <input type="checkbox"/> SI TA STATUS EXTENSION  <input type="checkbox"/> OTHER         </td> <td style="width: 33%; vertical-align: top;"> <input type="checkbox"/> CASING REPAIR  <input type="checkbox"/> CHANGE WELL NAME  <input type="checkbox"/> CONVERT WELL TYPE  <input type="checkbox"/> NEW CONSTRUCTION  <input type="checkbox"/> PLUG BACK  <input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION  <input type="checkbox"/> TEMPORARY ABANDON  <input type="checkbox"/> WATER DISPOSAL  <input checked="" type="checkbox"/> APD EXTENSION          OTHER: _____       </td> </tr> </table>		<input type="checkbox"/> ACIDIZE <input type="checkbox"/> CHANGE TO PREVIOUS PLANS <input type="checkbox"/> CHANGE WELL STATUS <input type="checkbox"/> DEEPEN <input type="checkbox"/> OPERATOR CHANGE <input type="checkbox"/> PRODUCTION START OR RESUME <input type="checkbox"/> REPERFORATE CURRENT FORMATION <input type="checkbox"/> TUBING REPAIR <input type="checkbox"/> WATER SHUTOFF <input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> ALTER CASING <input type="checkbox"/> CHANGE TUBING <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS <input type="checkbox"/> FRACTURE TREAT <input type="checkbox"/> PLUG AND ABANDON <input type="checkbox"/> RECLAMATION OF WELL SITE <input type="checkbox"/> SIDETRACK TO REPAIR WELL <input type="checkbox"/> VENT OR FLARE <input type="checkbox"/> SI TA STATUS EXTENSION <input type="checkbox"/> OTHER	<input type="checkbox"/> CASING REPAIR <input type="checkbox"/> CHANGE WELL NAME <input type="checkbox"/> CONVERT WELL TYPE <input type="checkbox"/> NEW CONSTRUCTION <input type="checkbox"/> PLUG BACK <input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION <input type="checkbox"/> TEMPORARY ABANDON <input type="checkbox"/> WATER DISPOSAL <input checked="" type="checkbox"/> APD EXTENSION OTHER: _____
<input type="checkbox"/> ACIDIZE <input type="checkbox"/> CHANGE TO PREVIOUS PLANS <input type="checkbox"/> CHANGE WELL STATUS <input type="checkbox"/> DEEPEN <input type="checkbox"/> OPERATOR CHANGE <input type="checkbox"/> PRODUCTION START OR RESUME <input type="checkbox"/> REPERFORATE CURRENT FORMATION <input type="checkbox"/> TUBING REPAIR <input type="checkbox"/> WATER SHUTOFF <input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> ALTER CASING <input type="checkbox"/> CHANGE TUBING <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS <input type="checkbox"/> FRACTURE TREAT <input type="checkbox"/> PLUG AND ABANDON <input type="checkbox"/> RECLAMATION OF WELL SITE <input type="checkbox"/> SIDETRACK TO REPAIR WELL <input type="checkbox"/> VENT OR FLARE <input type="checkbox"/> SI TA STATUS EXTENSION <input type="checkbox"/> OTHER	<input type="checkbox"/> CASING REPAIR <input type="checkbox"/> CHANGE WELL NAME <input type="checkbox"/> CONVERT WELL TYPE <input type="checkbox"/> NEW CONSTRUCTION <input type="checkbox"/> PLUG BACK <input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION <input type="checkbox"/> TEMPORARY ABANDON <input type="checkbox"/> WATER DISPOSAL <input checked="" type="checkbox"/> APD EXTENSION OTHER: _____			
<b>12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.</b> As per conversation between Brad Hill (DOGM Permitting Manager) and Tracey Fallang (BBC Permit Specialist) on May 6, 2010, BBC has been granted an additional year extension on the APD for this location. The original APD was approved on May 16, 2007. The previous permit extension expires on May 16, 2010.					
<b>NAME (PLEASE PRINT)</b> Matt Barber		<b>PHONE NUMBER</b> 303 312-8168			
<b>SIGNATURE</b> N/A		<b>TITLE</b> Permit Analyst			
<b>DATE</b> 5/6/2010		<b>APPROVED BY:</b> <div style="text-align: right;"> <b>Approved by the Utah Division of Oil, Gas and Mining</b>   <b>Date:</b> <u>May 10, 2010</u>  <b>By:</b> </div>			

**RECEIVED** May 06, 2010





## The Utah Division of Oil, Gas, and Mining

- State of Utah  
- Department of Natural Resources

Electronic Permitting System - Sundry Notices

### Request for Permit Extension Validation Well Number 43013336580000

**API:** 43013336580000

**Well Name:** 5-21-46- DLB

**Location:** 1500 FNL 1200 FWL QTR SWNW SEC 21 TWP 040S RNG 060W MER U

**Company Permit Issued to:** BILL BARRETT CORP

**Date Original Permit Issued:** 5/16/2007

The undersigned as owner with legal rights to drill on the property as permitted above, hereby verifies that the information as submitted in the previously approved application to drill, remains valid and does not require revision. Following is a checklist of some items related to the application, which should be verified.

- If located on private land, has the ownership changed, if so, has the surface agreement been updated? ☐ Yes ☒ No
- Have any wells been drilled in the vicinity of the proposed well which would affect the spacing or siting requirements for this location? ☐ Yes ☒ No
- Has there been any unit or other agreements put in place that could affect the permitting or operation of this proposed well? ☐ Yes ☒ No
- Have there been any changes to the access route including ownership, or rightof- way, which could affect the proposed location? ☐ Yes ☒ No
- Has the approved source of water for drilling changed? ☐ Yes ☒ No
- Have there been any physical changes to the surface location or access route which will require a change in plans from what was discussed at the onsite evaluation? ☐ Yes ☒ No
- Is bonding still in place, which covers this proposed well? ☒ Yes ☐ No

**Approved by the  
Utah Division of  
Oil, Gas and Mining**

**Signature:** Matt Barber

**Date:** 5/6/2010

**Title:** Permit Analyst **Representing:** BILL BARRETT CORP

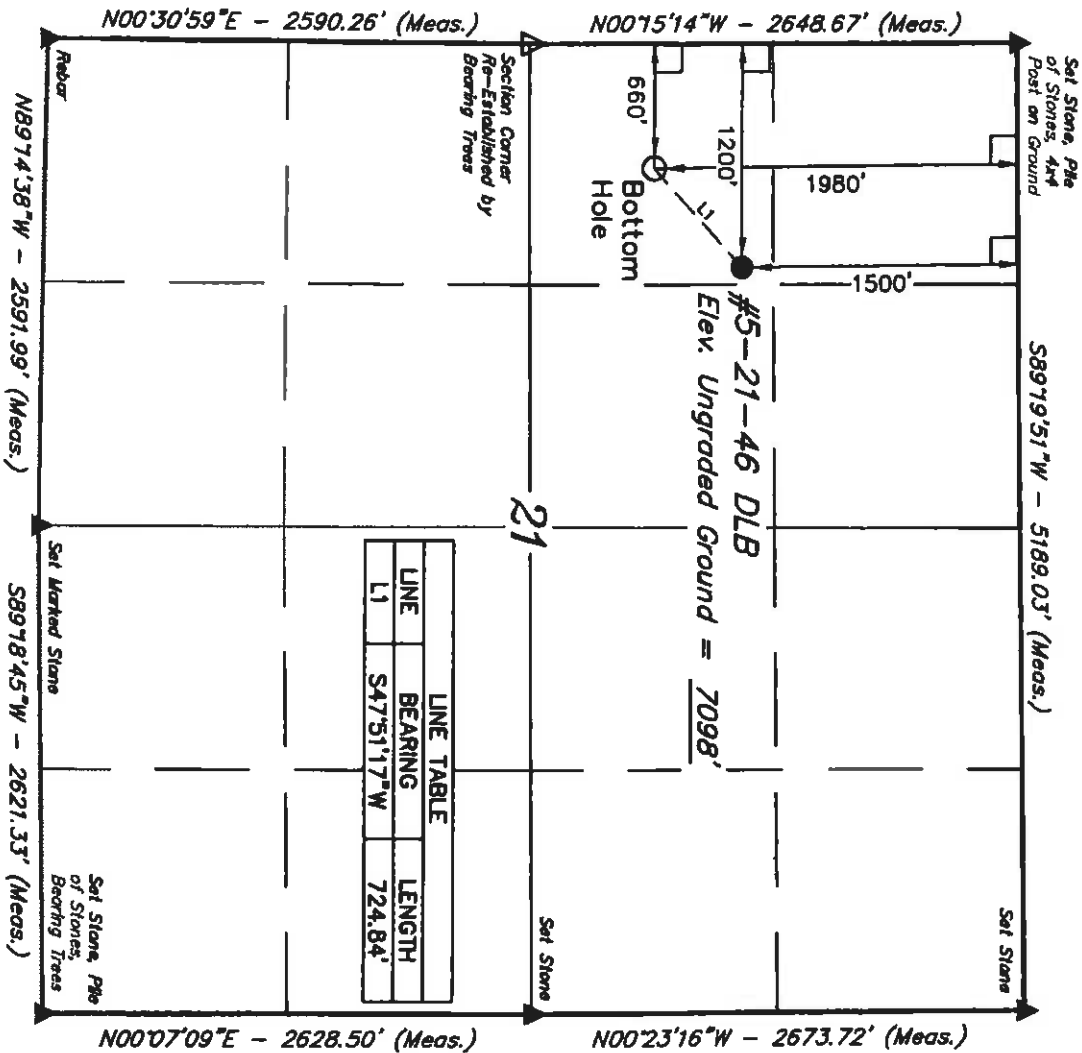
**Date:** May 10, 2010

**By:** 

**RECEIVED** May 06, 2010

<b>STATE OF UTAH</b> DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		<b>FORM 9</b>			
<b>SUNDRY NOTICES AND REPORTS ON WELLS</b>  Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.		<b>5. LEASE DESIGNATION AND SERIAL NUMBER:</b> 14-20-H62-5500			
<b>1. TYPE OF WELL</b> Gas Well		<b>6. IF INDIAN, ALLOTTEE OR TRIBE NAME:</b> UTE			
<b>2. NAME OF OPERATOR:</b> BILL BARRETT CORP		<b>7. UNIT or CA AGREEMENT NAME:</b>			
<b>3. ADDRESS OF OPERATOR:</b> 1099 18th Street Ste 2300 , Denver, CO, 80202		<b>8. WELL NAME and NUMBER:</b> 5-21-46- DLB			
<b>4. LOCATION OF WELL</b> <b>FOOTAGES AT SURFACE:</b> 1500 FNL 1200 FWL <b>QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:</b> Qtr/Qtr: SWNW Section: 21 Township: 04.0S Range: 06.0W Meridian: U		<b>9. API NUMBER:</b> 43013336580000			
<b>10. FIELD and POOL or WILDCAT:</b> ALTAMONT		<b>COUNTY:</b> DUCHESNE			
<b>11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA</b>		<b>STATE:</b> UTAH			
<b>TYPE OF SUBMISSION</b>  <input checked="" type="checkbox"/> <b>NOTICE OF INTENT</b> Approximate date work will start: 6/30/2011  <input type="checkbox"/> <b>SUBSEQUENT REPORT</b> Date of Work Completion:  <input type="checkbox"/> <b>SPUD REPORT</b> Date of Spud:  <input type="checkbox"/> <b>DRILLING REPORT</b> Report Date:	<b>TYPE OF ACTION</b>  <table style="width: 100%; border: none;"> <tr> <td style="width: 33%; vertical-align: top;"> <input type="checkbox"/> ACIDIZE  <input type="checkbox"/> CHANGE TO PREVIOUS PLANS  <input checked="" type="checkbox"/> CHANGE WELL STATUS  <input type="checkbox"/> DEEPEN  <input type="checkbox"/> OPERATOR CHANGE  <input type="checkbox"/> PRODUCTION START OR RESUME  <input type="checkbox"/> REPERFORATE CURRENT FORMATION  <input type="checkbox"/> TUBING REPAIR  <input type="checkbox"/> WATER SHUTOFF  <input type="checkbox"/> WILDCAT WELL DETERMINATION         </td> <td style="width: 33%; vertical-align: top;"> <input type="checkbox"/> ALTER CASING  <input type="checkbox"/> CHANGE TUBING  <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS  <input type="checkbox"/> FRACTURE TREAT  <input type="checkbox"/> PLUG AND ABANDON  <input type="checkbox"/> RECLAMATION OF WELL SITE  <input type="checkbox"/> SIDETRACK TO REPAIR WELL  <input type="checkbox"/> VENT OR FLARE  <input type="checkbox"/> SI TA STATUS EXTENSION  <input type="checkbox"/> OTHER         </td> <td style="width: 33%; vertical-align: top;"> <input type="checkbox"/> CASING REPAIR  <input type="checkbox"/> CHANGE WELL NAME  <input type="checkbox"/> CONVERT WELL TYPE  <input type="checkbox"/> NEW CONSTRUCTION  <input type="checkbox"/> PLUG BACK  <input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION  <input type="checkbox"/> TEMPORARY ABANDON  <input type="checkbox"/> WATER DISPOSAL  <input type="checkbox"/> APD EXTENSION            OTHER: <input style="width: 100px;" type="text"/> </td> </tr> </table>		<input type="checkbox"/> ACIDIZE <input type="checkbox"/> CHANGE TO PREVIOUS PLANS <input checked="" type="checkbox"/> CHANGE WELL STATUS <input type="checkbox"/> DEEPEN <input type="checkbox"/> OPERATOR CHANGE <input type="checkbox"/> PRODUCTION START OR RESUME <input type="checkbox"/> REPERFORATE CURRENT FORMATION <input type="checkbox"/> TUBING REPAIR <input type="checkbox"/> WATER SHUTOFF <input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> ALTER CASING <input type="checkbox"/> CHANGE TUBING <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS <input type="checkbox"/> FRACTURE TREAT <input type="checkbox"/> PLUG AND ABANDON <input type="checkbox"/> RECLAMATION OF WELL SITE <input type="checkbox"/> SIDETRACK TO REPAIR WELL <input type="checkbox"/> VENT OR FLARE <input type="checkbox"/> SI TA STATUS EXTENSION <input type="checkbox"/> OTHER	<input type="checkbox"/> CASING REPAIR <input type="checkbox"/> CHANGE WELL NAME <input type="checkbox"/> CONVERT WELL TYPE <input type="checkbox"/> NEW CONSTRUCTION <input type="checkbox"/> PLUG BACK <input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION <input type="checkbox"/> TEMPORARY ABANDON <input type="checkbox"/> WATER DISPOSAL <input type="checkbox"/> APD EXTENSION OTHER: <input style="width: 100px;" type="text"/>
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<b>12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.</b> Bill Barrett Corporation is submitting this revised information based on changes proposed for this well, including the total depth, casing and cementing program and revisions to the surface use plan. Some information is below and additional details are attached. New TD: 7500 ft Lease No. Correction: 14-20-H62-6108 Surface Csg Depth: 1100 ft If you have any questions, please contact me at 303-312-8134					
<b>NAME (PLEASE PRINT)</b> Tracey Fallang		<b>PHONE NUMBER</b> 303 312-8134			
<b>SIGNATURE</b> N/A		<b>TITLE</b> Regulatory Manager			
<b>DATE</b> 10/13/2010		<b>Accepted by the Utah Division of Oil, Gas and Mining</b>  <b>Date:</b> <u>October 14, 2010</u> <b>By:</b> <u><i>Don K. Quist</i></u>			

T4S, R6W, U.S.B.&M.



BILL BARRETT CORPORATION

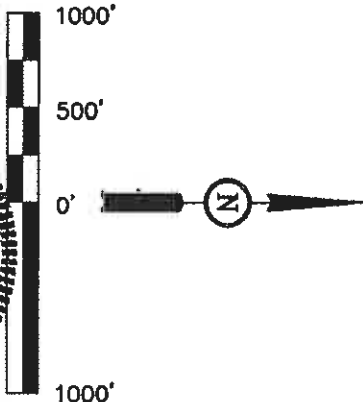
Well location, #5-21-46 DLB, located as shown in the SW 1/4 NW 1/4 of Section 21, T4S, R6W, U.S.B.&M., Duchesne County, Utah.

BASIS OF ELEVATION

BENCH MARK (M67) LOCATED IN THE SW 1/4 OF SECTION 9, T5S, R4W, U.S.B.&M., TAKEN FROM THE DUCHESE SE QUADRANGLE, UTAH, DUCHESE COUNTY, 7.5 MINUTE QUAD. (TOPOGRAPHIC MAP) PUBLISHED BY THE UNITED STATES DEPARTMENT OF THE INTERIOR, GEOLOGICAL SURVEY. SAID ELEVATION IS MARKED ON CAP AS BEING 6097 FEET.

BASIS OF BEARINGS

BASIS OF BEARINGS IS A G.P.S. OBSERVATION.



THIS IS TO CERTIFY THAT I HAVE RE-ESTABLISHED THE CORNERS OF SECTION 21, T4S, R6W, U.S.B.&M., DUCHESE COUNTY, UTAH, FROM THE FIELD NOTES OF ACTING SURVEYOR MADE BY ME UNDER MY SUPERVISION AND THAT THE SAME ARE TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.

STATE OF UTAH

REGISTERED LAND SURVEYOR

REGISTRATION NO. 161318

LEGEND:

- = PROPOSED WELL HEAD.
- ▲ = SECTION CORNERS LOCATED.
- △ = SECTION CORNERS RE-ESTABLISHED. (Not Set on Ground)
- └ = 90° SYMBOL

(NAD 83)  
LATITUDE = 40°07'17.94" (40.121650)  
LONGITUDE = 110°34'21.98" (110.572772)  
(NAD 27)  
LATITUDE = 40°07'18.09" (40.121692)  
LONGITUDE = 110°34'18.42" (110.572061)

UTAH ENGINEERING & LAND SURVEYING

86 SOUTH 200 EAST - VERNAL, UTAH 84078

(435) 788-1017

SCALE	1" = 1000'	DATE SURVEYED:	04-16-07	DATE DRAWN:	04-20-07
PARTY	D.R. K.A. P.M.	REFERENCES	G.L.O. PLAT	FILE	BILL BARRETT CORPORATION
WEATHER	COOL				

# BILL BARRETT CORPORATION

#5-21-46 DLB

LOCATED IN UINTAH COUNTY, UTAH  
SECTION 21, T4S, R6W, U.S.B.&M.



PHOTO: VIEW OF LOCATION STAKE TO CORNER #5

CAMERA ANGLE: SOUTHERLY



PHOTO: VIEW FROM BEGINNING OF PROPOSED ACCESS

CAMERA ANGLE: NORTHEASTERLY



UELS

Uintah Engineering & Land Surveying

85 South 200 East Vernal, Utah 84078  
435-789-1017 uels@uelsinc.com

- Since 1964 -

LOCATION PHOTOS

04 23 07  
MONTH DAY YEAR

PHOTO

TAKEN BY: D.R.

DRAWN BY: A.A.

REVISED: 00-00-00

RECEIVED October 13, 2010

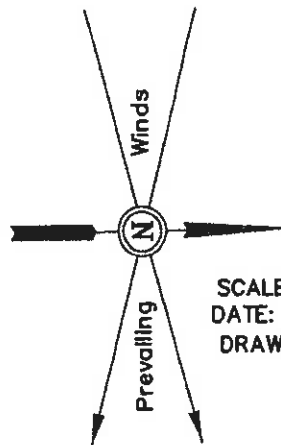


# BILL BARRETT CORPORATION

## LOCATION LAYOUT FOR

#5-21-46 DLB  
SECTION 21, T4S, R6W, U.S.B.&M.  
1500' FNL 1200' FWL

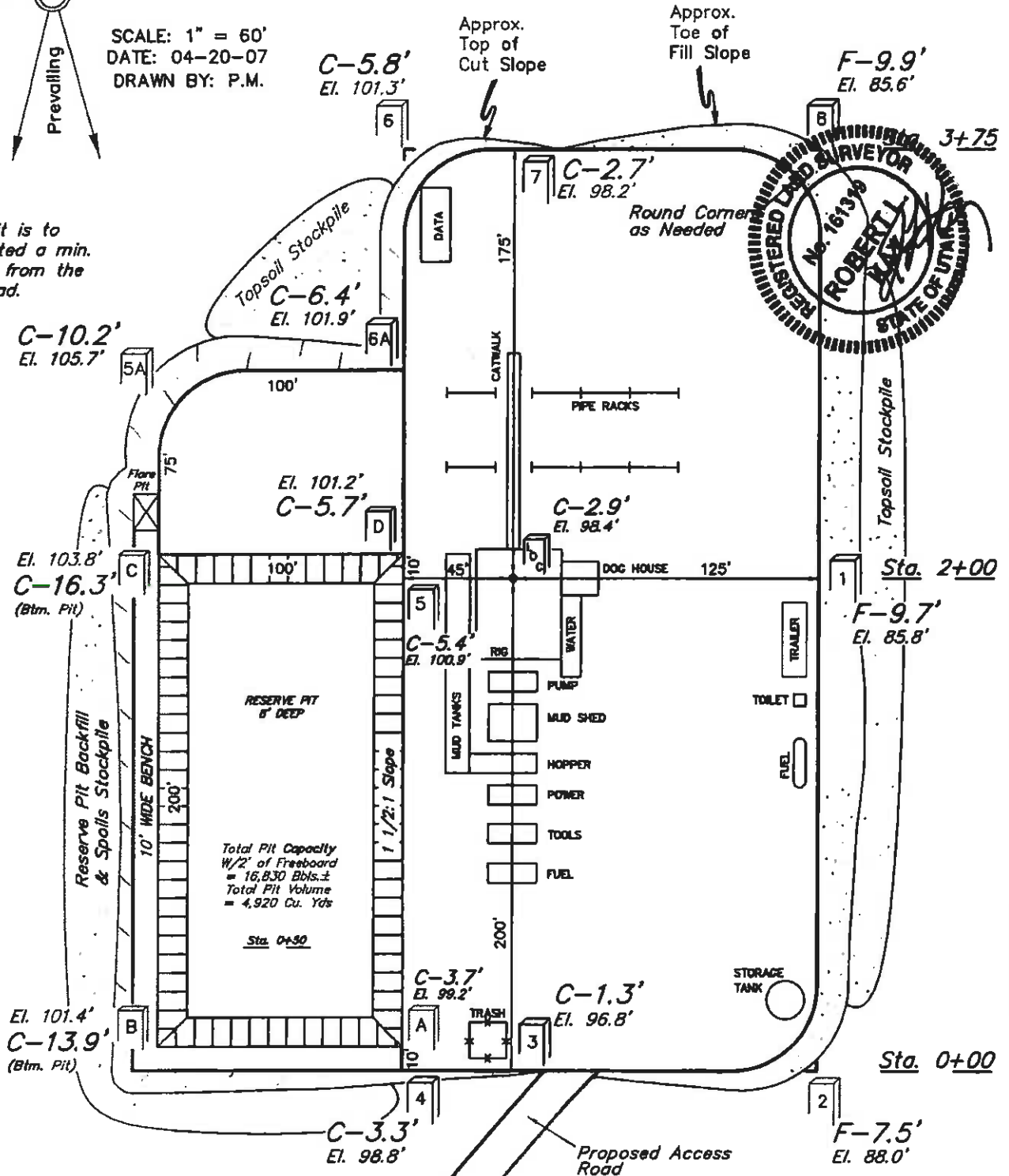
FIGURE #1



SCALE: 1" = 60'  
DATE: 04-20-07  
DRAWN BY: P.M.

### NOTE:

Flare Pit is to be located a min. of 100' from the Well Head.



### NOTES:

Elev. Ungraded Ground At Loc. Stake = 7098.4'  
FINISHED GRADE ELEV. AT LOC. STAKE = 7095.5'

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# BILL BARRETT CORPORATION

## TYPICAL CROSS SECTIONS FOR

#5-21-46 DLB

SECTION 21, T4S, R6W, U.S.B.&M.

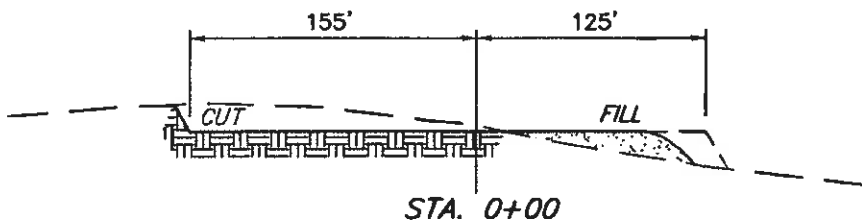
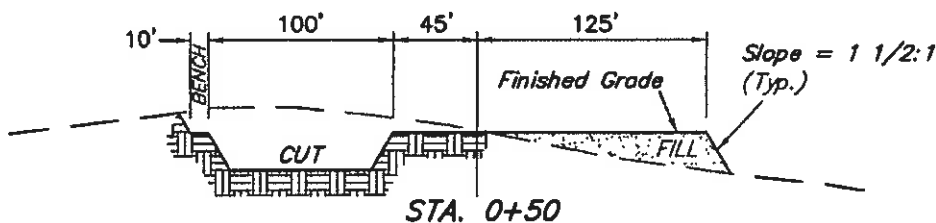
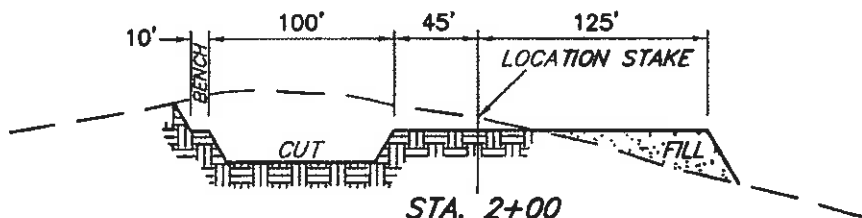
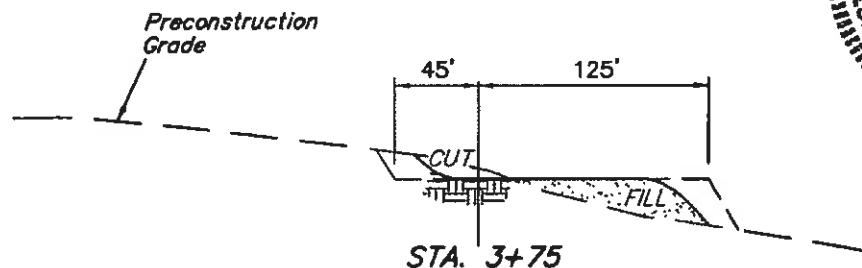
1500' FNL 1200' FWL

FIGURE #2

1" = 40'  
X-Section  
Scale  
1" = 100'

DATE: 04-20-07

DRAWN BY: P.M.



### NOTE:

Topsoil should not be Stripped Below Finished Grade on Substructure Area.

### \* NOTE:

FILL QUANTITY INCLUDES 5% FOR COMPACTION

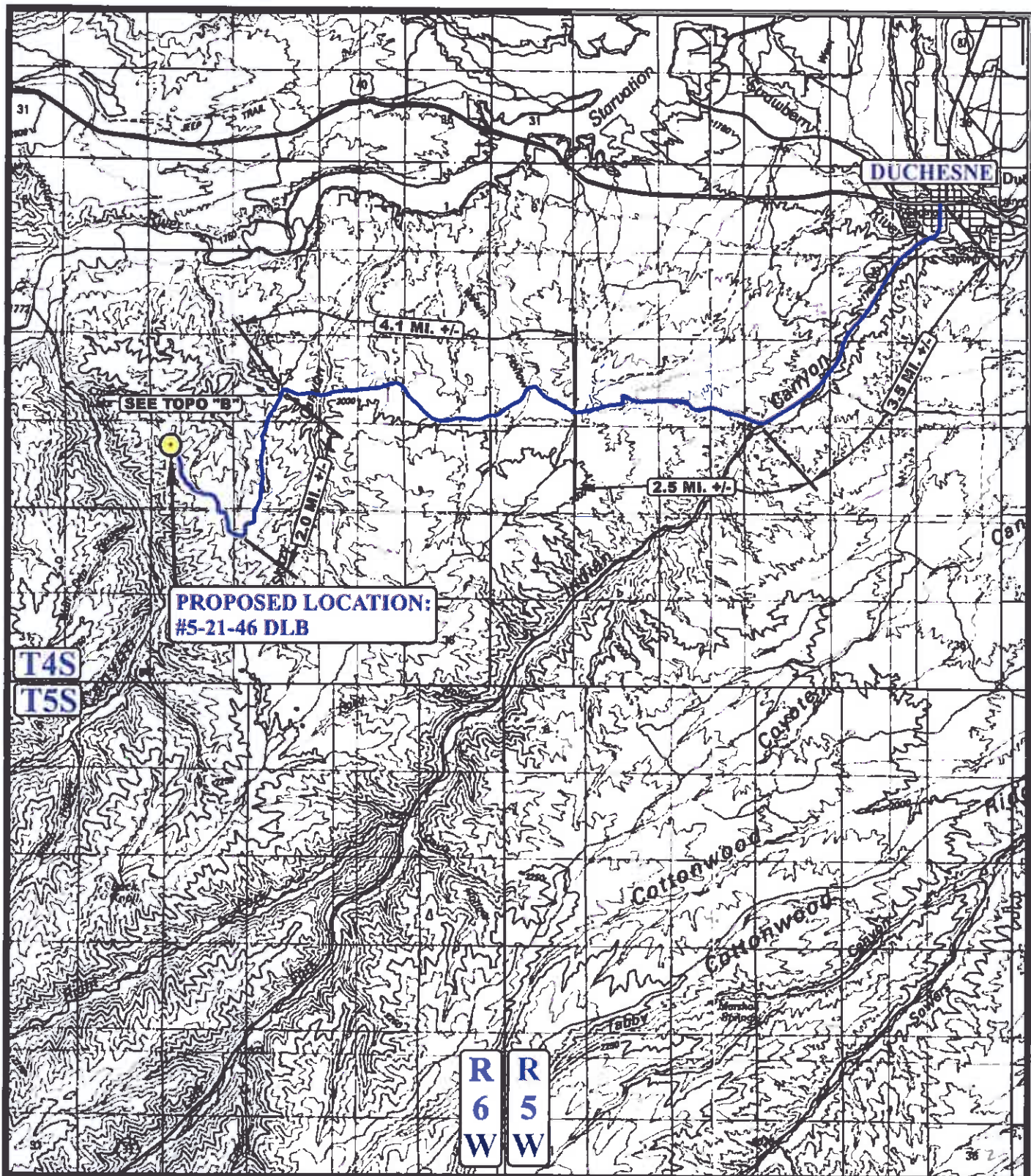
### APPROXIMATE YARDAGES

CUT	
(12") Topsoil Stripping	= 4,110 Cu. Yds.
Remaining Location	= 13,300 Cu. Yds.
<b>TOTAL CUT</b>	<b>= 17,410 CU.YDS.</b>
<b>FILL</b>	<b>= 10,840 CU.YDS.</b>

EXCESS MATERIAL	= 6,570 Cu. Yds.
Topsoil & Pit Backfill (1/2 Pit Vol.)	= 6,570 Cu. Yds.
EXCESS UNBALANCE (After Interim Rehabilitation)	= 0 Cu. Yds.

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**LEGEND:**

● PROPOSED LOCATION



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**BILL BARRETT CORPORATION**

#5-21-46 DLB  
SECTION 21, T4S, R6W, U.S.B.&M.  
1500' FNL 1200' FWL

**TOPOGRAPHIC  
MAP**

**04 23 07**  
MONTH DAY YEAR

SCALE: 1:100,000

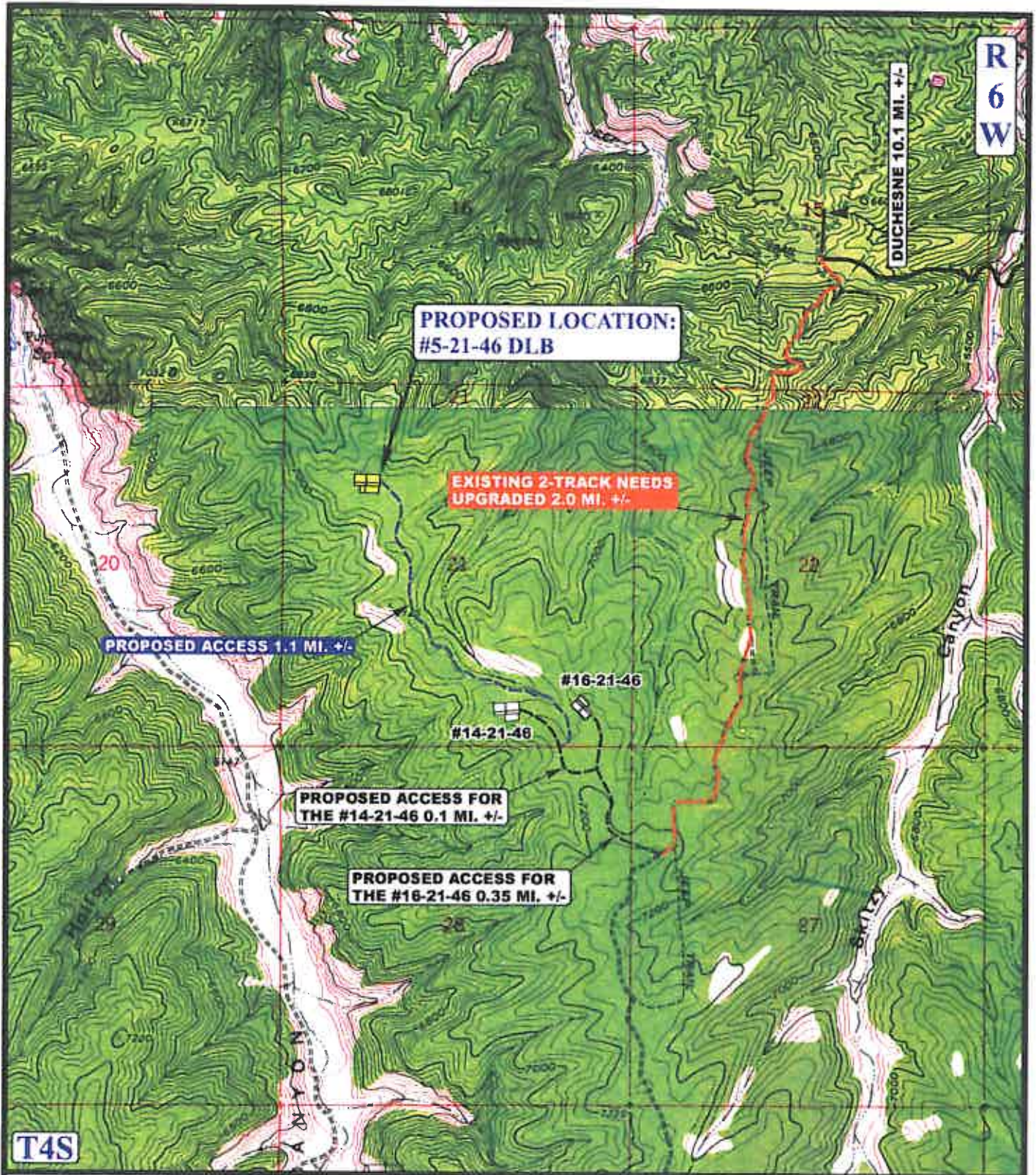
DRAWN BY: A.A.

REVISED: 00-00-00



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**LEGEND:**

--- PROPOSED ACCESS ROAD  
--- EXISTING 2-TRACK NEEDS UPGRADED

**BILL BARRETT CORPORATION**

#5-21-46 DLB  
SECTION 21, T4S, R6W, U.S.B.&M.  
1500' FNL 1200' FWL



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**TOPOGRAPHIC  
MAP**

**04 23 07**  
MONTH DAY YEAR

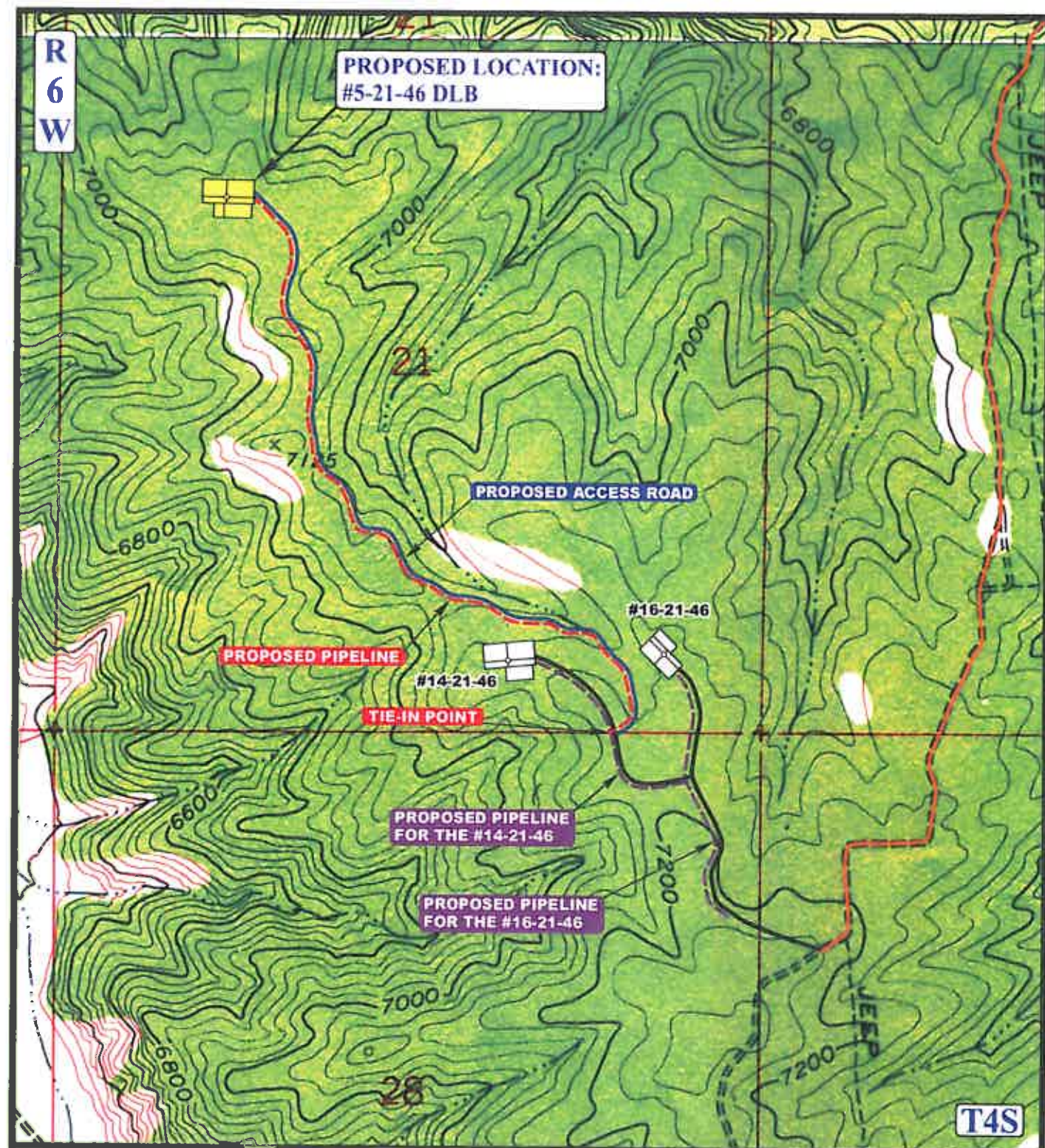
SCALE: 1" = 2000'

DRAWN BY: A.A.

REVISED: 00-00-00

**B**  
**TOPO**





APPROXIMATE TOTAL PIPELINE DISTANCE = 5,521' +/-

LEGEND:

- PROPOSED ACCESS ROAD
- EXISTING PIPELINE
- PROPOSED PIPELINE
- PROPOSED PIPELINE (SERVICING OTHER WELLS)



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BILL BARRETT CORPORATION

#5-21-46 DLB  
SECTION 21, T4S, R6W, U.S.B.&M.  
1500' FNL 1200' FWL

TOPOGRAPHIC MAP 04 23 07  
MONTH DAY YEAR  
SCALE: 1" = 1000' DRAWN BY: A.A. REVISED: 00-00-00

D  
TOPO



4S/6W

One Mile Radius Map

17

16

15

7-20-46 DLB

20

1-20-3A

5-21-46 DLB

21

1-21-3A

7-21-46 DLB

22



Bill Barrett Corporation

5-21-46 DLB Pad  
SWNW, Section 21, T4S, R6W  
Duchesne County, Utah

Legend

Oil - 2 Total

P&A - 2 Total

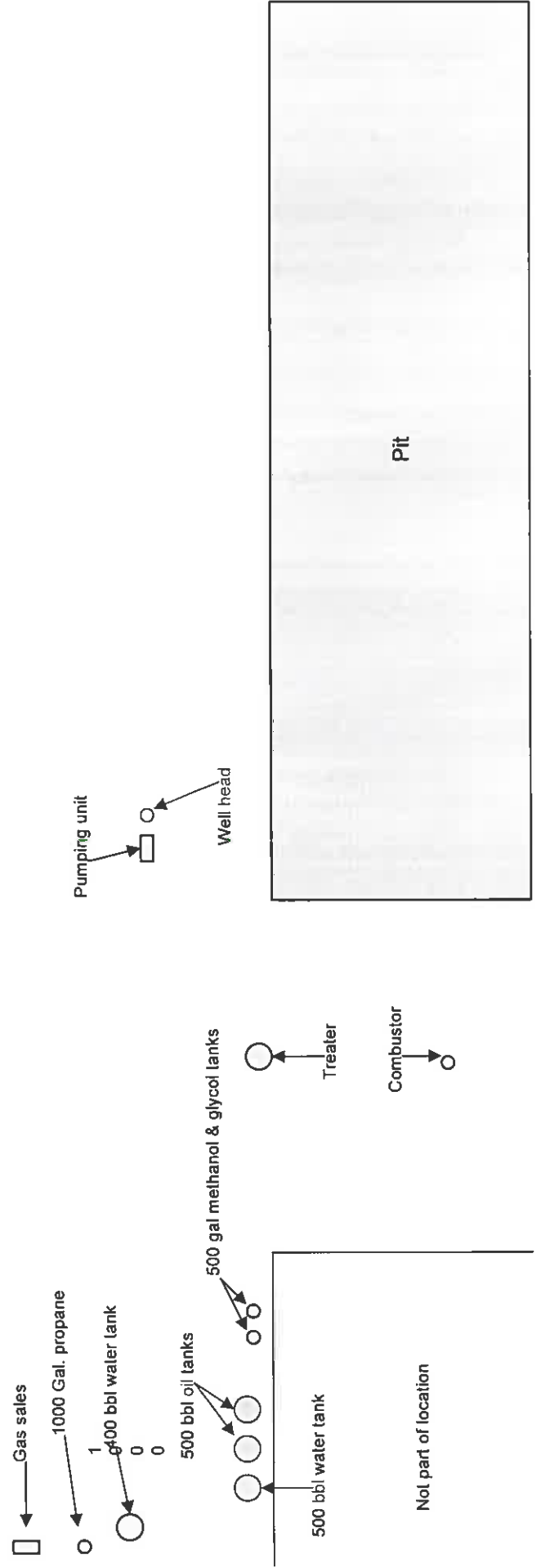
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August 11, 2010

# Facility Layout

5-21-46 DLB

Access road



## **DRILLING PLAN**

### **BILL BARRETT CORPORATION**

# 5-21-46 DLB

SHL: SWNW, 1500' FNL & 1200' FWL, Section 21, T4S, R6W

BHL: SWNW, 1980' FNL & 660' FWL, Section 21, T4S, R6W

Duchesne County, Utah

**1 - 2. Estimated Tops of Geological Markers and Formations Expected to Contain Water, Oil and Gas and Other Minerals**

<u>Formation</u>	<u>MD</u>	<u>TVD</u>
Green River	1926'	1926'
Douglas Creek	4564'	4491'
Black Shale	5373'	5281'
Castle Peak	5574'*	5481'
Wasatch	6105' *	6011'
TD	7500'	7400'

\*PROSPECTIVE PAY

The Wasatch and lower Green River are the primary objectives for oil/gas.

**3. BOP and Pressure Containment Data**

<u>Depth Intervals</u>	<u>BOP Equipment</u>
0 – 1,100'	No pressure control required
1,100' – TD	11" 3000# Ram Type BOP 11" 3000# Annular BOP
- Drilling spool to accommodate choke and kill lines;	
- Ancillary equipment and choke manifold rated at 3,000#. All BOP and BOPE tests will be in accordance with the requirements of onshore Order No. 2;	
- The BLM and the State of Utah Division of Oil, Gas and Mining will be notified 24 hours in advance of all BOP pressure tests.	
- BOP hand wheels may be underneath the sub-structure of the rig if the drilling rig used is set up To operate most efficiently in this manner.	

**4. Casing Program**

<u>Hole Size</u>	<u>SETTING DEPTH</u>		<u>Casing Size</u>	<u>Casing Weight</u>	<u>Casing Grade</u>	<u>Thread</u>	<u>Condition</u>
	<u>(FROM)</u>	<u>(TO)</u>					
26"	surface	80'	16"	65#			
12 ¼"	surface	1,100'	9 5/8"	36#	J or K 55	ST&C	New
8 ¾" & 7 7/8"	surface	7,500'	5 ½"	17#	N or I 80	LT&C	New

5. **Cementing Program**

16" Conductor Casing	Grout cement
9 5/8" Surface Casing	Approximately 120 sx Halliburton Light Premium cement with additives mixed at 11.0 ppg (yield = 3.16 ft <sup>3</sup> /sx) circulated to surface with 75% excess. Approximately 210 sx Halliburton Premium cement with additives mixed at 14.8 ppg (yield = 1.36 ft <sup>3</sup> /sx).
5 1/2" Production Casing	Approximately 910 sx Tuned Light cement with additives mixed at 11.0 ppg (yield = 2.31 ft <sup>3</sup> /sx). Approximately 540 sx Halliburton Econocem cement with additives mixed at 13.5 ppg (yield = 1.42 ft <sup>3</sup> /sx). Estimated TOC = surface.

6. **Mud Program**

<u>Interval</u>	<u>Weight</u>	<u>Viscosity</u>	<u>Fluid Loss</u> (API filtrate)	<u>Remarks</u>
40' – 1,100'	8.3 – 8.8	26 – 36	NC	Freshwater Spud Mud Fluid System
1,100' – TD	8.6 – 10.6	42-52	20 cc or less	DAP Polymer Fluid System

Note: Sufficient mud materials to maintain mud properties, control lost circulation and to contain "kicks" will be available at wellsite. BBC may require minor amounts of diesel to be added to its fluid system in order to reduce torque and drag.

7. **Testing, Logging and Core Programs**

Cores	None anticipated;
Testing	None anticipated; drill stem tests may be run on shows of interest;
Sampling	30' to 50' samples; surface casing to TD. Preserve samples all show intervals;
Surveys	MWD as needed to land wellbore;
Logging	DIL-GR-SP, FDC-CNL-GR-CALIPER-Pe-Microlog, Sonic-GR (all TD to surface). FMI & Sonic Scanner to be run at geologist's discretion.

8. **Anticipated Abnormal Pressures or Temperatures**

No abnormal pressures or temperatures or other hazards are anticipated.

Maximum anticipated bottom hole pressure equals approximately 4,079 psi\* and maximum anticipated surface pressure equals approximately 2,451 psi\*\* (bottom hole pressure minus the pressure of a partially evacuated hole calculated at 0.22 psi/foot).

\*Max Mud Wt x 0.052 x TD = A (bottom hole pressure)

\*\*Maximum surface pressure = A – (0.22 x TD)

9. **Auxiliary equipment**

- Upper kelly cock; lower Kelly cock will be installed while drilling
- Inside BOP or stab-in valve (available on rig floor)
- Safety valve(s) and subs to fit all string connections in use
- Mud monitoring will be visually observed

Bill Barrett Corporation  
Drilling Program  
# 5-21-46 DLB  
Duchesne County, Utah

**10.     Location and Type of Water Supply**

Water for the drilling and completion will be trucked from the Duchesne City Culinary Water Dock located in Sec. 1, T4S, R5W.

**11.     Drilling Schedule**

Location Construction:	Approximately June 30, 2011
Spud:	Approximately July 15, 2011
Duration:	20 days drilling time
	45 days completion time

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## **PRESSURE CONTROL EQUIPMENT – Schematic Attached**

**A. Type:** Eleven (11) Inch Double Gate Hydraulic BOP with Eleven (11) Inch Annular Preventer. The blow out preventer will be equipped as follows:

1. One (1) blind ram (above).
2. One (1) pipe ram (below).
3. Drilling spool with two (2) side outlets (choke side 3-inch minimum, kill side 2-inch minimum).
4. 3-inch diameter choke line.
5. Two (2) choke line valves (3-inch minimum).
6. Kill line (2-inch minimum).
7. Two (2) chokes.
8. Two (2) kill line valves, one of which shall be a check valve (2-inch minimum).
9. Upper kelly cock valve with handles available.
10. Safety valve(s) & subs to fit all drill string connections in use.
11. Pressure gauge on choke manifold.
12. Fill-up line above the uppermost preventer.

**B. Pressure Rating:** 3,000 psi

**C. Testing Procedure:**

### **Annular Preventer**

At a minimum, the Annular Preventer will be pressure tested to 50% of the rated working pressure for a period of ten (10) minutes or until provisions of the test are met, whichever is longer.

At a minimum the above pressure test will be performed:

1. When the annular preventer is initially installed;
2. Whenever any seal subject to test pressure is broken;
3. Following related repairs; and
4. At thirty (30) day intervals.

In addition, the Annular Preventer will be functionally operated at least weekly.

### **Blow-Out Preventer**

At a minimum, the BOP, choke manifold, and related equipment will be pressure tested to the approved working pressure of the BOP stack (if isolated from the surface casing by a test plug) or to 70% of the internal yield strength of the surface casing (if the BOP is not isolated from the casing by a test plug). Pressure will be

maintained for a period of at least ten (10) minutes or until the requirements of the test are met, whichever is longer.

At a minimum, the above pressure test will be performed:

1. When the BOP is initially installed;
2. Whenever any seal subject to test pressure is broken;
3. Following related repairs; and
4. At thirty (30) day intervals.

In addition the pipe and blind rams will be activated each trip, but not more than once each day. All BOP drills and tests will be recorded in the IADC driller's log.

#### **D. Choke Manifold Equipment:**

All choke lines will be straight lines unless turns use tee blocks or are targeted with running tees, and will be anchored to prevent whip and vibration.

#### **E. Accumulator:**

The accumulator will have sufficient capacity to open the hydraulically-controlled choke line valve (if so equipped), close all rams plus the annular preventer, and retain a minimum of 200 psi above precharge on the closing manifold without the use of closing unit pumps. The fluid reservoir capacity will be double the usable fluid volume of the accumulator system capacity and the fluid level of the reservoir will be maintained at the manufacturer's recommendations.

The BOP system will have two (2) independent power sources to close the preventers. Nitrogen bottles (3 minimum) will be one (1) of these independent power sources and will maintain a charge equal to the manufacturer's specifications.

The accumulator precharge pressure test will be conducted prior to connecting the closing unit to the BOP stack and at least once every six (6) months thereafter. The accumulator pressure will be corrected if the measured precharge pressure is found to be above or below the maximum or minimum limits specified in the *Onshore Oil & Gas Order Number 2*.

A manual locking device (i.e. hand wheels) or automatic locking device will be installed on all systems of 2M or greater. A valve will be installed in the closing line as close as possible to the annular preventer to act as a locking device. This valve will be maintained in the open position and will be closed only when the power source for the accumulator is inoperative.



Remote controls shall be readily accessible to the driller. Remote controls for all 3M or greater systems will be capable of closing all preventers. Remote controls for 5M or greater systems will be capable of both opening and closing all preventers. Master controls will be at the accumulator and will be capable of opening and closing all preventers and the choke line valve (if so equipped).

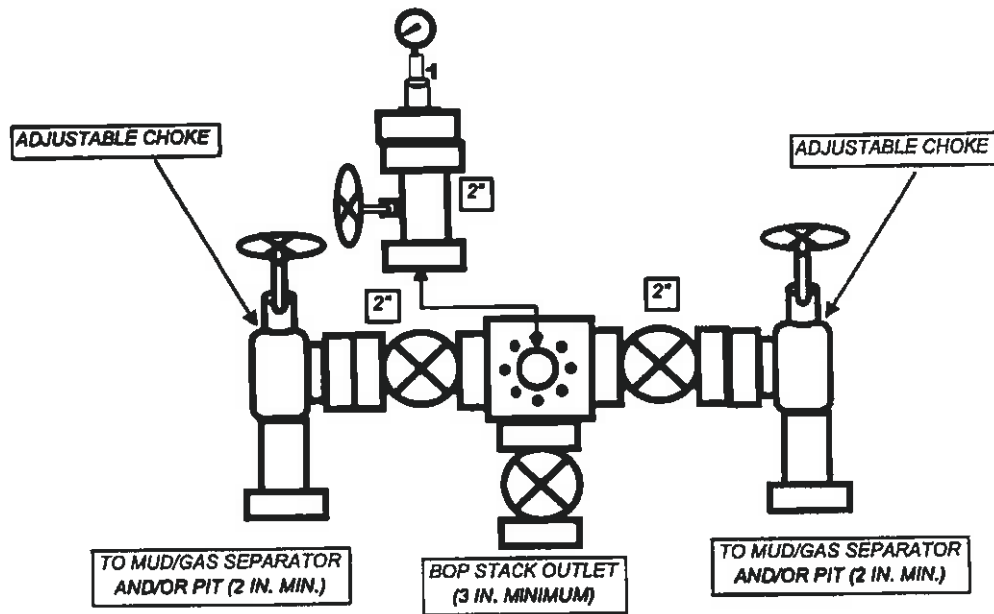
**F. Miscellaneous Information:**

The Blow-Out Preventer and related pressure control equipment will be installed, tested and maintained in compliance with the specifications in and requirements of *Onshore Oil & Gas Order Number 2*. The choke manifold will be located outside the rig sub-structure. The hydraulic BOP closing unit will be located at least twenty-five (25) feet from the well head but readily accessible to the driller. Exact locations and configurations of the hydraulic BOP closing unit will depend upon the particular rig contracted to drill this hole.

A flare line will be installed after the choke manifold, extending 125 feet (minimum) from the center of the drill hole to a separate flare pit.

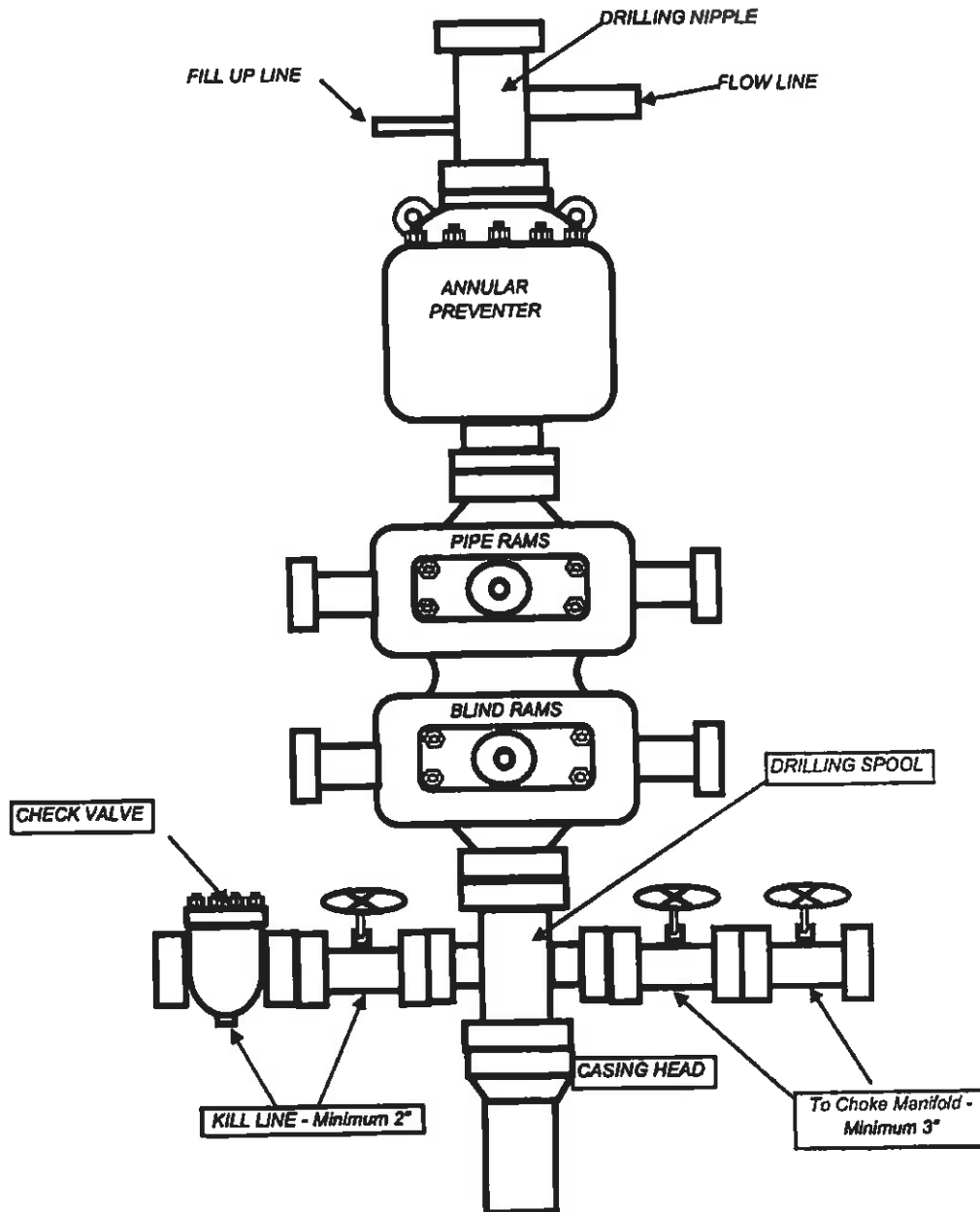
# BILL BARRETT CORPORATION

## TYPICAL 3,000 p.s.i. CHOKE MANIFOLD



# BILL BARRETT CORPORATION

## TYPICAL 3,000 p.s.i. BLOWOUT PREVENTER





# Bill Barrett Corporation

## LAKE CANYON CEMENT VOLUMES

**Well Name:** 5-21-46 DLB

### Surface Hole Data:

Total Depth:	1,100'
Top of Cement:	0'
OD of Hole:	12.250"
OD of Casing:	9.625"

### Calculated Data:

Lead Volume:	328.8	ft <sup>3</sup>
Lead Fill:	600'	
Tail Volume:	274.0	ft <sup>3</sup>
Tail Fill:	500'	

### Cement Data:

Lead Yield:	3.16	ft <sup>3</sup> /sk
% Excess:	75%	
Top of Lead:	0'	

### Calculated # of Sacks:

# SK's Lead:	120
--------------	-----

Tail Yield:	1.36	ft <sup>3</sup> /sk
% Excess:	75%	
Top of Tail:	600'	

# SK's Tail:	210
--------------	-----

### Production Hole Data:

Total Depth:	7,500'
Top of Cement:	0'
Top of Tail:	5,500'
OD of Hole:	8.750"
OD of Casing:	5.500"

### Calculated Data:

Lead Volume:	2083.9	ft <sup>3</sup>
Lead Fill:	5,500'	
Tail Volume:	757.9	ft <sup>3</sup>
Tail Fill:	2,000'	

### Cement Data:

Lead Yield:	2.31	ft <sup>3</sup> /sk
Tail Yield:	1.42	ft <sup>3</sup> /sk
% Excess:	50%	

### Calculated # of Sacks:

# SK's Lead:	910
# SK's Tail:	540

## 5-21-46 DLB Proposed Cementing Program

<u>Job Recommendation</u>		<u>Surface Casing</u>	
<b>Lead Cement - (600' - 0')</b>			
Halliburton Light Premium	Fluid Weight:	11.0	lbm/gal
5.0 lbm/sk Silicalite Compacted	Slurry Yield:	3.16	ft <sup>3</sup> /sk
0.25 lbm/sk Kwik Seal	Total Mixing Fluid:	19.48	Gal/sk
0.125 lbm/sk Poly-E-Flake	Top of Fluid:	0'	
2.0% Bentonite	Calculated Fill:	600'	
	Volume:	58.57	bbl
	<b>Proposed Sacks:</b>	<b>120</b>	<b>sk</b>
<b>Tail Cement - (TD - 600')</b>			
Premium Cement	Fluid Weight:	14.8	lbm/gal
2.0% Calcium Chloride	Slurry Yield:	1.36	ft <sup>3</sup> /sk
	Total Mixing Fluid:	6.37	Gal/sk
	Top of Fluid:	600'	
	Calculated Fill:	500'	
	Volume:	48.80	bbl
	<b>Proposed Sacks:</b>	<b>210</b>	<b>sk</b>

<u>Job Recommendation</u>		<u>Production Casing</u>	
<b>Lead Cement - (5500' - 0')</b>			
Tuned Light™ System	Fluid Weight:	11.0	lbm/gal
	Slurry Yield:	2.31	ft <sup>3</sup> /sk
	Total Mixing Fluid:	10.65	Gal/sk
	Top of Fluid:	0'	
	Calculated Fill:	5,500'	
	Volume:	371.13	bbl
	<b>Proposed Sacks:</b>	<b>910</b>	<b>sk</b>
<b>Tail Cement - (7500' - 5500')</b>			
Econocem™ System	Fluid Weight:	13.5	lbm/gal
0.125 lbm/sk Poly-E-Flake	Slurry Yield:	1.42	ft <sup>3</sup> /sk
1.0 lbm/sk Granulite TR 1/4	Total Mixing Fluid:	6.61	Gal/sk
	Top of Fluid:	5,500'	
	Calculated Fill:	2,000'	
	Volume:	134.97	bbl
	<b>Proposed Sacks:</b>	<b>540</b>	<b>sk</b>



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## Plan Report for #5-21-46 DLB - Plan #1 - Rev1 Proposal

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Bulld Rate (°/100ft)	Turn Rate (°/100ft)	Toolface Azimuth (°)
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
100.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
200.00	0.00	0.00	200.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
300.00	0.00	0.00	300.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
400.00	0.00	0.00	400.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
500.00	0.00	0.00	500.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
600.00	0.00	0.00	600.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
700.00	0.00	0.00	700.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
800.00	0.00	0.00	800.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
900.00	0.00	0.00	900.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1,000.00	0.00	0.00	1,000.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1,100.00	0.00	0.00	1,100.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1,200.00	0.00	0.00	1,200.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1,300.00	0.00	0.00	1,300.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1,400.00	0.00	0.00	1,400.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1,500.00	0.00	0.00	1,500.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1,600.00	0.00	0.00	1,600.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1,700.00	0.00	0.00	1,700.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1,800.00	0.00	0.00	1,800.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1,900.00	0.00	0.00	1,900.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1,926.00	0.00	0.00	1,926.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>Green River</b>										
2,000.00	0.00	0.00	2,000.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2,100.00	0.00	0.00	2,100.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2,200.00	0.00	0.00	2,200.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2,300.00	0.00	0.00	2,300.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2,400.00	0.00	0.00	2,400.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2,500.00	0.00	0.00	2,500.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2,600.00	0.00	0.00	2,600.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2,700.00	0.00	0.00	2,700.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2,800.00	0.00	0.00	2,800.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>KOP - Begin 2.0°/100' Build at 2800.00ft</b>										
2,900.00	2.00	227.85	2,899.98	-1.17	-1.29	1.75	2.00	2.00	0.00	227.85
3,000.00	4.00	227.85	2,999.84	-4.68	-5.17	6.98	2.00	2.00	0.00	0.00
3,000.16	4.00	227.85	3,000.00	-4.69	-5.18	6.99	0.00	0.00	0.00	0.00
<b>9 5/8" Csg</b>										
3,100.00	6.00	227.85	3,099.45	-10.53	-11.64	15.69	2.00	2.00	0.00	0.00
3,200.00	8.00	227.85	3,198.70	-18.71	-20.67	27.88	2.00	2.00	0.00	0.00
3,300.00	10.00	227.85	3,297.47	-29.20	-32.27	43.52	2.00	2.00	0.00	0.00
3,400.00	12.00	227.85	3,395.62	-42.01	-46.42	62.60	2.00	2.00	0.00	0.00
3,500.00	14.00	227.85	3,493.06	-57.10	-63.09	85.10	2.00	2.00	0.00	0.00
3,600.00	16.00	227.85	3,589.64	-74.47	-82.28	110.98	2.00	2.00	0.00	0.00
3,700.00	18.00	227.85	3,685.27	-94.08	-103.96	140.21	2.00	2.00	0.00	0.00
3,711.29	18.23	227.85	3,696.00	-96.44	-106.56	143.72	2.00	2.00	0.00	0.00
<b>TGR3</b>										
3,800.00	20.00	227.85	3,779.82	-115.93	-128.10	172.77	2.00	2.00	0.00	0.00
3,900.00	22.00	227.85	3,873.17	-139.98	-154.67	208.60	2.00	2.00	0.00	0.00
3,914.92	22.30	227.85	3,886.99	-143.75	-158.84	214.23	2.00	2.00	0.00	0.00
<b>End of Build at 3914.92ft</b>										
4,000.00	22.30	227.85	3,965.71	-165.41	-182.77	246.51	0.00	0.00	0.00	0.00
4,100.00	22.30	227.85	4,058.23	-190.87	-210.91	284.45	0.00	0.00	0.00	0.00
<b>Hold Angle at 22.30°</b>										
4,200.00	22.30	227.85	4,150.75	-216.33	-239.04	322.40	0.00	0.00	0.00	0.00
4,286.68	22.30	227.85	4,230.95	-238.40	-263.42	355.29	0.00	0.00	0.00	0.00
<b>Begin 1.5°/100ft Drop to 6.0° at Drillers Target at 4286.68ft</b>										
4,300.00	22.10	227.85	4,243.28	-241.78	-267.16	360.32	1.50	-1.50	0.00	180.00
4,400.00	20.60	227.85	4,336.42	-266.21	-294.15	396.72	1.50	-1.50	0.00	180.00

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**Plan Report for #5-21-46 DLB - Plan #1 - Rev1 Proposal**

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Bulld Rate (°/100ft)	Turn Rate (°/100ft)	Toolface Azimuth (°)
4,500.00	19.10	227.85	4,430.47	-288.99	-319.32	430.67	1.50	-1.50	0.00	180.00
4,563.87	18.14	227.85	4,491.00	-302.67	-334.44	451.07	1.50	-1.50	0.00	180.00
<b>Douglas Creek</b>										
4,600.00	17.60	227.85	4,525.39	-310.11	-342.66	462.15	1.50	-1.50	0.00	-180.00
4,700.00	16.10	227.85	4,621.09	-329.56	-364.15	491.14	1.50	-1.50	0.00	180.00
4,800.00	14.60	227.85	4,717.52	-347.32	-383.78	517.61	1.50	-1.50	0.00	180.00
4,900.00	13.10	227.85	4,814.61	-363.38	-401.52	541.54	1.50	-1.50	0.00	180.00
4,952.68	12.31	227.85	4,866.00	-371.15	-410.11	553.12	1.50	-1.50	0.00	-180.00
<b>3Point Marker</b>										
5,000.00	11.60	227.85	4,912.29	-377.73	-417.38	562.93	1.50	-1.50	0.00	180.00
5,100.00	10.10	227.85	5,010.50	-390.36	-431.33	581.75	1.50	-1.50	0.00	180.00
5,200.00	8.60	227.85	5,109.17	-401.26	-443.38	597.99	1.50	-1.50	0.00	180.00
5,300.00	7.10	227.85	5,208.23	-410.42	-453.50	611.65	1.50	-1.50	0.00	180.00
5,373.25	6.00	227.85	5,281.00	-416.03	-459.70	620.00	1.50	-1.50	0.00	180.00
<b>Continue 1.0°/100ft Drop Toward BHL Target at 5373.25ft - Black Shale</b>										
5,400.00	5.73	227.85	5,307.61	-417.86	-461.72	622.73	1.00	-1.00	0.00	-180.00
5,500.00	4.73	227.85	5,407.20	-423.98	-468.49	631.85	1.00	-1.00	0.00	-180.00
5,574.02	3.99	227.85	5,481.00	-427.76	-472.66	637.48	1.00	-1.00	0.00	-180.00
<b>Castle Peak</b>										
5,600.00	3.73	227.85	5,506.92	-428.93	-473.96	639.23	1.00	-1.00	0.00	-180.00
5,687.92	2.85	227.85	5,594.70	-432.32	-477.70	644.28	1.00	-1.00	0.00	-180.00
5,700.00	2.85	227.85	5,606.76	-432.73	-478.15	644.89	0.00	0.00	0.00	0.00
5,800.00	2.85	227.85	5,706.64	-438.07	-481.84	649.86	0.00	0.00	0.00	0.00
5,884.47	2.85	227.85	5,791.00	-438.89	-484.96	654.07	0.00	0.00	0.00	0.00
<b>Uteland Butte</b>										
5,900.00	2.85	227.85	5,806.51	-439.41	-485.53	654.84	0.00	0.00	0.00	0.00
5,929.52	2.85	227.85	5,836.00	-440.39	-486.62	656.31	0.00	0.00	0.00	0.00
<b>CR1</b>										
6,000.00	2.85	227.85	5,906.39	-442.75	-489.22	659.82	0.00	0.00	0.00	0.00
6,100.00	2.85	227.85	6,006.27	-446.09	-492.91	664.80	0.00	0.00	0.00	0.00
6,104.74	2.85	227.85	6,011.00	-446.25	-493.09	665.03	0.00	0.00	0.00	0.00
<b>Wasatch</b>										
6,200.00	2.85	227.85	6,106.14	-449.43	-496.60	669.77	0.00	0.00	0.00	0.00
6,209.87	2.85	227.85	6,116.00	-449.76	-496.97	670.27	0.00	0.00	0.00	0.00
<b>CR2</b>										
6,300.00	2.85	227.85	6,206.02	-452.77	-500.29	674.75	0.00	0.00	0.00	0.00
6,400.00	2.85	227.85	6,305.89	-456.11	-503.98	679.73	0.00	0.00	0.00	0.00
6,485.21	2.85	227.85	6,391.00	-458.95	-507.13	683.97	0.00	0.00	0.00	0.00
<b>CR3</b>										
6,500.00	2.85	227.85	6,405.77	-459.45	-507.67	684.71	0.00	0.00	0.00	0.00
6,600.00	2.85	227.85	6,505.65	-462.79	-511.36	689.69	0.00	0.00	0.00	0.00
6,700.00	2.85	227.85	6,605.52	-466.13	-515.06	694.66	0.00	0.00	0.00	0.00
6,800.00	2.85	227.85	6,705.40	-469.47	-518.75	699.64	0.00	0.00	0.00	0.00
6,800.60	2.85	227.85	6,706.00	-469.49	-518.77	699.67	0.00	0.00	0.00	0.00
<b>CR4</b>										
6,900.00	2.85	227.85	6,805.27	-472.81	-522.44	704.62	0.00	0.00	0.00	0.00
7,000.00	2.85	227.85	6,905.15	-476.15	-526.13	709.60	0.00	0.00	0.00	0.00
7,055.92	2.85	227.85	6,961.00	-478.02	-528.19	712.38	0.00	0.00	0.00	0.00
<b>CR4A</b>										
7,100.00	2.85	227.85	7,005.03	-479.49	-529.82	714.57	0.00	0.00	0.00	0.00
7,161.05	2.85	227.85	7,066.00	-481.53	-532.07	717.61	0.00	0.00	0.00	0.00
<b>CR5</b>										
7,200.00	2.85	227.85	7,104.90	-482.83	-533.51	719.55	0.00	0.00	0.00	0.00
7,300.00	2.85	227.85	7,204.78	-486.17	-537.20	724.53	0.00	0.00	0.00	0.00
7,306.23	2.85	227.85	7,211.00	-486.38	-537.43	724.84	0.00	0.00	0.00	0.00
<b>Total Depth at 7306.23ft</b>										

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**Plan Report for #5-21-46 DLB - Plan #1 - Rev1 Proposal****Plan Annotations**

Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates		Comment
		+N/-S (ft)	+E/-W (ft)	
2,800.00	2,800.00	0.00	0.00	KOP - Begin 2.0°/100' Build at 2800.00ft
3,914.92	3,886.99	-143.75	-158.84	End of Build at 3914.92ft
4,100.00	4,058.23	-190.87	-210.91	Hold Angle at 22.30°
4,286.68	4,230.95	-238.40	-263.42	Begin 1.5°/100ft Drop to 6.0° at Drillers Target at 4286.68ft
5,373.25	5,281.00	-416.03	-459.70	Continue 1.0°/100ft Drop Toward BHL Target at 5373.25ft
7,306.23	7,211.00	-486.38	-537.43	Total Depth at 7306.23ft

**Vertical Section Information**

Angle Type	Target	Azimuth (°)	Origin Type	Origin +N/-S (ft)	Origin +E/-W (ft)	Start TVD (ft)
TD	No Target (Freehand)	227.85	Slot	0.00	0.00	0.00

**Survey tool program**

From (ft)	To (ft)	Survey/Plan	Survey Tool
0.00	7,306.23	Plan #1 - Rev1 Proposal	MWD

**Casing Details**

Measured Depth (ft)	Vertical Depth (ft)	Name	Casing Diameter (")	Hole Diameter (")
3,000.16	3,000.00	9 5/8" Csg	9-5/8	12-1/4

**Formation Details**

Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)
1,926.00	1,926.00	Green River		0.00	
3,711.29	3,696.00	TGR3		0.00	
4,563.87	4,491.00	Douglas Creek		0.00	
4,952.68	4,866.00	3Point Marker		0.00	
5,373.25	5,281.00	Black Shale		0.00	
5,574.02	5,481.00	Castle Peak		0.00	
5,884.47	5,791.00	Uteland Butte		0.00	
5,929.52	5,836.00	CR1		0.00	
6,104.74	6,011.00	Wasatch		0.00	
6,209.87	6,116.00	CR2		0.00	
6,485.21	6,391.00	CR3		0.00	
6,800.60	6,706.00	CR4		0.00	
7,055.92	6,961.00	CR4A		0.00	
7,161.05	7,066.00	CR5		0.00	

**Targets associated with this wellbore**

Target Name	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Shape
5-21-46 DLB_Plan 1 - Rev1_Drillers Tgt	5,281.00	-416.03	-459.70	Point
5-21-46 DLB_Plan 1 - Rev1_BHL Tgt	7,211.00	-486.38	-537.43	Point
5-21-46 DLB_Plan 1 - Rev1_Zone Tgt	5,281.00	-486.38	-537.43	Circle

**North Reference Sheet for Sec. 21-T4S-R6W - #5-21-46 DLB - Plan #1 - Rev1**

All data is in US Feet unless otherwise stated. Directions and Coordinates are relative to True North Reference.

Vertical Depths are relative to KB @ 7111.00ft (Patterson 506). Northing and Easting are relative to #5-21-46 DLB

Coordinate System is US State Plane 1927 (Exact solution), Utah Central 4302 using datum NAD 1927 (NADCON CONUS), ellipsoid Clarke 1866

Projection method is Lambert Conformal Conic (2 parallel)

Central Meridian is  $-111.50^{\circ}$ , Longitude Origin:  $0^{\circ} 0' 0.000 \text{ E}^{\circ}$ , Latitude Origin:  $40^{\circ} 39' 0.000 \text{ N}^{\circ}$

False Easting: 2,000,000.00ft, False Northing: 0.00ft, Scale Reduction: 0.99991131

Grid Coordinates of Well: 652,717.58 ft N, 2,259,491.27 ft E

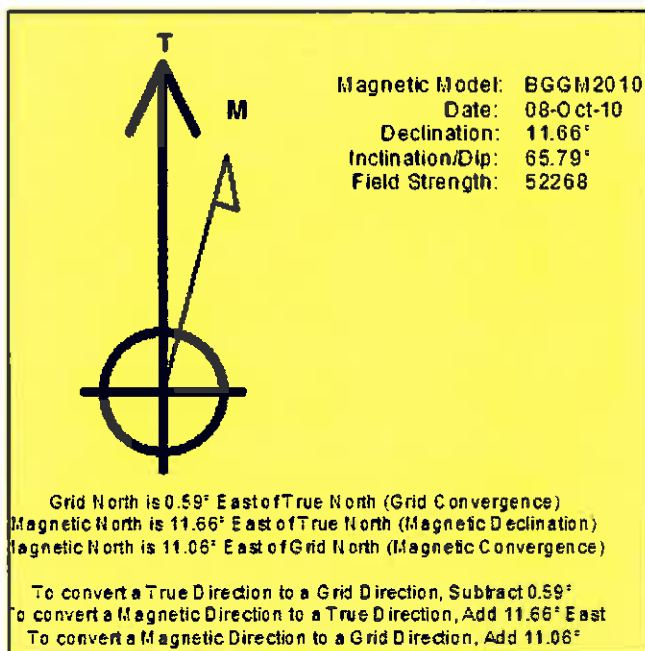
Geographical Coordinates of Well:  $40^{\circ} 07' 18.09'' \text{ N}$ ,  $110^{\circ} 34' 19.42'' \text{ W}$

Grid Convergence at Surface is:  $0.59^{\circ}$

Based upon Minimum Curvature type calculations, at a Measured Depth of 7,306.23ft

the Bottom Hole Displacement is 724.84ft in the Direction of  $227.85^{\circ}$  (True).

Magnetic Convergence at surface is:  $-11.06^{\circ}$  ( 8 October 2010, , BGGM2010)



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## SURFACE USE PLAN

### BILL BARRETT CORPORATION

#### 5-21-46 DLB Well Pad

SHL: SWNW, 1500' FNL & 1200' FWL, Section 21, T4S, R6W, SLB&M

BHL: SWNW, 1980' FNL & 660' FWL, Section 21, T4S, R6W, SLB&M

Duchesne County, Utah

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**The Ute Tribal onsite for this location was conducted on June 5, 2007.** This permit was previously approved and expired on July 27, 2009.

The excavation contractor would be provided with an approved copy of the surface use plan of operations before initiating construction.

1. Existing Roads:
  - a. The proposed well site is located approximately 13.65 miles southwest of Duchesne, Utah. Maps and directions reflecting the route to the proposed well site are included (see Topographic maps A and B).
  - b. A portion of the proposed Bill Barrett Corporation maintained 7-21-46 DLB road would be utilized for access to the proposed 5-21-46 DLB access road with no improvements anticipated.
  - c. Project roads would require routine year-round maintenance to provide year-round access. Maintenance would include inspections, reduction of ruts and holes, maintenance to keep water off the road, replacement of surfacing materials, and clearing of sediment blocking ditches and culverts. Should snow removal become necessary, roads would be cleared with a motor grader and snow would be stored along the down gradient side to prohibit runoff onto the road. Aggregate would be used as necessary to maintain a solid running surface and minimize dust generation.
  - d. Vehicle operators would obey posted speed restrictions and observe safe speeds commensurate with road and weather conditions. Travel would be limited to the existing access roads and proposed access road.
  - e. The use of roads under State and Duchesne County Road Department maintenance are necessary to access the project area with no improvements proposed.
  - f. All existing roads would be maintained and kept in good repair during all phases of operation.

2. Planned Access Road:

- a. Approximately 0.1 miles of proposed access for the 14-21-46 DLB (ROW Serial # H62-2007-190) would be constructed to a point where access to the proposed 5-21-46 DLB well begins. From this point approximately 1.1 miles of new access road is proposed entering the east side of the pad area (see Topographic Map B).
- b. A tribal right of way (ROW) is approved and enclosed (ROW Serial No. H62-2007-210) for the well site and access road (total ROW acreage = 6.833 ac). The road would be constructed to a 30-foot ROW width with an 18-foot travel surface.
- c. New road construction and improvements of existing roads would typically require the use of motor graders, crawler tractors, 10-yard end dump trucks, and water trucks. The standard methodology for building new roads involves the use of a crawler tractor or track hoe to windrow the vegetation to one side of the road corridor, remove topsoil to the opposing side of the corridor, and rough-in the roadway. This is followed by a grader or bulldozer to establish barrow ditches and crown the road surface. Where culverts are required, a track hoe or backhoe would trench the road and install the culverts. Some hand labor would be required when installing and armoring culverts. Road base or gravel in some instances would be necessary and would be hauled in and a grader used to smooth the running surface.
- d. The proposed road would be constructed to facilitate drainage, control erosion and minimize visual impacts by following natural contours where practical. No unnecessary side-casting of material would occur on steep slopes.
- e. A maximum grade of 10% would be maintained throughout the project with minimum cuts and fills, as necessary, to access the well.
- f. Excess rock from construction of the pad may be used for surfacing of the access road if necessary. Any additional aggregate necessary would be obtained from private or State of Utah lands in conformance with applicable regulations. Aggregate would be of sufficient size, type, and amount to allow all weather access and alleviate dust.
- g. Where topsoil removal is necessary, it would be windrowed (i.e. stockpiled/accumulated along the edge of the ROW and in a low row/pile parallel with the ROW) and re-spread over the disturbed area after construction and backfilling are completed. Vegetation removed from the disturbed area would also be re-spread to provide protection, nutrient recycling, and a seed source for reclamation.

- h. Turnouts are not proposed because the access road is short and adequate site distance exists in all directions.
  - i. No culverts or low-water crossings are anticipated. Adequate drainage structures, where necessary, would be incorporated into the remainder of the road to prevent soil erosion and accommodate all-weather traffic.
  - j. No gates or cattle guards are anticipated at this time.
  - k. Surface disturbance and vehicular travel would be limited to the approved location access road. Adequate signs would be posted, as necessary, to warn the public of project related traffic.
  - l. All access roads and surface disturbing activities would conform to the appropriate standard, **no higher than necessary**, to accommodate their intended function adequately as outlined in the Bureau of Land Management and Forest Service publication: Surface Operating Standards for Oil and Gas Exploration and Development, Fourth Edition – Revised 2007.
  - m. The operator would be responsible for all maintenance needs of the new access road.
3. Location of Existing Wells (see One-Mile Radius Map):
- a. Following is a list of wells with surface hole locations within a one-mile radius of the proposed pad:
    - i. water wells none
    - ii. injection wells none
    - iii. disposal wells none
    - iv. drilling wells none
    - v. temp shut-in wells none
    - vi. producing wells two
    - vii. abandoned wells two
4. Location of Production Facilities
- a. Surface facilities would consist of a wellhead, separator, gas meter, (1) 500 gal methanol tank, (1) 500 gal glycol tank, (2) 500 bbl oil tanks, (1) 500 bbl water tank, (1) 500 bbl test tank, (1) 1000 gal propane tank, a pumping unit with natural gas fired motor, solar panels, solar chemical and methanol pumps and one trace pump. See proposed facility layout.
  - b. Most wells would be fitted with a pump jack to assist liquid production if liquid volumes and/or low formation pressures require it. Plunger lift systems do not require any outside source of energy. The prime mover for pump jacks would be small (75 horsepower or less), natural gas-fired internal combustion engines.

- c. The tank battery would be surrounded by a secondary containment berm of sufficient capacity to contain 1.1 times the entire capacity of the largest single tank and sufficient freeboard to contain precipitation. All loading lines and valves would be placed inside the berm surrounding the tank battery or would utilize catchment basins to contain spills. All liquid hydrocarbon production and measurement shall conform to the provisions of 43 CFR 3162.7-2 and Onshore Oil and Gas Order No. 4 for the measurement of oil.
- d. Gas meter run(s) would be constructed and located on lease within 500 feet of the wellheads. Meter runs would be housed and/or fenced. As practicably feasible, meters would be equipped with remote telemetry monitoring systems. All gas production and measurement shall comply with the provisions of 43 CFR 3162.7-3, Onshore Oil and Gas Order No. 5, and American Gas Association (AGA) Report No. 3.
- e. A combustor may be installed at this location for control of associated condensate tank emissions. A combustor ranges from 24 inches to 48 inches wide and is approximately 27 ft tall. Combustor placement would be on existing disturbance.
- f. Approximately 5,521 feet of pipeline corridor containing a single polyethylene or steel pipeline up to 10 inch in diameter is proposed and would connect to the proposed pipeline to the 14-21-46 DLB then continue approximately 900' to the existing pipeline corridor servicing the existing 7-21-46 DLB (see Topographic Map D).
- g. The new segments of gas pipeline would be surface laid line within a 30 foot wide pipeline ROW (3.778 acres). Tribal ROW Serial No. H62-2007-211.
- h. Construction of the ROW would temporarily utilize the 30 foot disturbed width for the road for a total disturbed width of 60 foot for the road and pipeline corridors. The use of the proposed well site and access roads would facilitate the staging of the pipeline construction.
- i. Pipeline construction methods and practices would be planned and conducted by BBC with the objective of enhancing reclamation and fostering the re-establishment of the native plant community.
- j. All permanent above-ground structures would be painted a flat, non-reflective color, such as Yuma Green, to match the standard environmental colors. All facilities would be painted the designated color at the time of installation. Facilities required to comply with the Occupational Safety and Health Act (OSHA) may be excluded.
- k. Site security guidelines identified in 43 CFR 3162.7-5 and Onshore Oil and Gas Order No. 3 would be adhered to. Any modifications to proposed facilities would be reflected in the site security diagram submitted.

- I. The site would require periodic maintenance to ensure that drainages are kept open and free of debris, and that surfaces are properly treated to reduce erosion, fugitive dust, and impacts to adjacent areas.

5. Location and Type of Water Supply:

- a. No water supply pipelines would be laid for this well.
- b. Water for the drilling and completion would be trucked from the Duchesne City Culinary Water Dock located in Sec. 1, T4S, R5W, USB&M.
- c. No new water well is proposed with this application.
- d. Should additional water sources be pursued they would be properly permitted through the State of Utah – Division of Water Rights. Additionally, the Ute Tribe would be notified of any changes in water supply.
- e. Water use would vary in accordance with the formations to be drilled but would be up to approximately 3.64 acre feet for drilling and completion operations.

6. Source of Construction Material:

- a. The use of materials would conform to 43 CFR 3610.2-3.
- b. No construction materials would be removed from the lease or EDA area.
- c. If any additional gravel is required, it would be obtained from a local supplier having a permitted source of materials within the general area.

7. Methods of Handling Waste Disposal:

- a. All wastes associated with this application would be contained and disposed of utilizing approved facilities.
- b. The reserve pit would be constructed so as not to leak, break or allow any discharge.
- c. The reserve pit would be lined with 12 mil (minimum) thickness polyethylene nylon reinforced liner material. The liner(s) would overlay straw, dirt and/or bentonite if rock is encountered during excavation. The liner would overlap the pit walls and be covered with dirt and/or rocks to hold them in place. No trash, scrap pipe, or other materials that could puncture the liner would be discarded in the pit. A minimum of two feet of free board would be maintained between the maximum fluid level and the top of the reserve pit at all times.
- d. To deter livestock from entering the pit, the three sides exterior to the location would be fenced before drilling starts. Following the conclusion of drilling and completion activities, the fourth side would also be fenced.

- e. Drill cuttings would be contained in the pit and buried on-site for a period not to exceed six months, weather permitting.
- f. Produced fluids from the well other than water would be decanted into steel test tank(s) until such time as construction of production facilities is completed. Any oil that may be accumulated would be transferred to a permanent production tank. Produced water may be used in further drilling and completion activities, evaporated in the pit, or would be hauled to one of the state-approved disposal facilities below:
  - 1. RNI Industries, Inc. – Pleasant Valley Disposal Pits  
Sec. 25, 26, 35 & 36, T4S-R3W
  - 2. Pro Water LLC – Blue Bench 13-1 Disposal Well (43-013-30971)  
NENE, Sec. 13, T3S-R5W
  - 3. RN Industries, Inc. – Bluebell Disposal Ponds  
Sec. 2, 4 & 9, T2S-R2W
  - 4. Water Disposal, Inc. – Harmston 1-32-A1 Disposal Well (43-013-30224), UTR #00707, Sec. 32, T1S-R1W
- g. Any salts and/or chemicals, which are an integral part of the drilling system, would be disposed of in the same manner as the drilling fluid.
- h. Any spills of oil, condensate, produced or frac water, drilling fluids, or other potentially deleterious substances would be recovered and either returned to its origin or disposed of at an approved disposal site, most likely in Duchesne, Utah.
- i. Chemicals on the EPA's Consolidated List of Chemicals subject to reporting under Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA) may be used or stored in quantities over reportable quantities. In the course of drilling, BBC could potentially store and use diesel fuel, sand (silica), hydrochloric acid, and CO<sub>2</sub> gas, all described as hazardous substances in 40 CFR Part 302, Section 302.4, in quantities exceeding 10,000 pounds. In addition, natural gas condensate and crude oil and methanol may be stored or used in reportable quantities. Small quantities of retail products (paint/spray paints, solvents {e.g., WD-40}, and lubrication oil) containing non-reportable volumes of hazardous substances may be stored and used on site at any time. No extremely hazardous substances, as defined in 40 CFR 355, would be used, produced, stored, transported or disposed of in association with the drilling, testing or completion of the wells.
- j. Portable toilets and trash containers would be located onsite during drilling and completion operations. A commercial supplier would install and maintain portable toilets and equipment and would be responsible for removing sanitary waste. Sanitary waste facilities (i.e. toilet holding tanks) would be regularly pumped and their contents disposed of at approved sewage disposal facilities in Duchesne, and/or Uintah Counties, in accordance with applicable rules and regulations regarding sewage treatment and disposal. Accumulated trash and



nonflammable waste materials would be hauled to an approved landfill once a week or as often as necessary. All debris and waste materials not contained in the trash containers would be cleaned up, removed from the construction ROW, well pad, or worker housing location, and disposed of at an approved landfill. Trash would be cleaned up everyday.

- k. Sanitary waste equipment and trash bins would be removed from the Project Area upon completion of access road or pipeline construction; following drilling and completion operations at an individual well pad; when worker housing is no longer needed; or as required.
- l. A flare pit may be constructed a minimum of 110' from the wellhead(s) and may be used during completion work. In the event a flare pit proves to be unworkable, a temporary flare stack or open top tank would be installed. BBC would flow back as much fluid and gas as possible into pressurized vessels, separating the fluids from the gas. In some instances, due to the completion fluids utilized within the Project Area, it is not feasible to direct the flow stream from the wellbore through pressurized vessels. In such instances BBC proposes to direct the flow to the open top tanks until flow through the pressurized vessels is feasible. At which point the fluid would either be returned to the reserve pit or placed into a tank(s). The gas would be directed to the flare pit, flare stack (each with a constant source of ignition), or may be directed into the sales pipeline.
- m. Hydrocarbons would be removed from the reserve pit as soon as practical. In the event immediate removal is not practical, the reserve pit would be flagged overhead or covered with wire or plastic mesh to protect migrating birds.

8. Ancillary Facilities:

- a. Garbage containers and portable toilets would be located on the well pad.
- b. On well pads where active drilling and completion is occurring, temporary housing would be provided on location for the well pad supervisor, geologist, tool pusher, and others that are required to be on location at all times. The well pad could include up to five single wide mobile homes or fifth wheel campers/trailers.

9. Well Site Layout:

- a. The well would be properly identified in accordance with 43 CFR 3162.6.
- b. The pad layout, cross section diagrams and rig layout are enclosed (see Figures 1 and 2).
- c. The pad and road designs are consistent with Ute Tribe specifications.
- d. The pad has been staked at its maximum size of 375 feet x 170 feet with an outboard reserve pit size of 100 feet x 200 feet x 8 feet deep.

- e. Within the approved well pad location, a crawler tractor would strip whatever topsoil is present and stockpile it along the edge of the well pad for use during reclamation. Vegetation would be distributed along the sides of the well pad.
- f. Fill from pit excavation would be stockpiled along the edge of the pit and the adjacent edge of the well pad.
- g. Use of erosion control measures, including proper grading to minimize slopes, diversion terraces and ditches, mulching, terracing, riprap, fiber matting, temporary sediment traps, and broad-based drainage dips or low water crossings would be employed by BBC as necessary and appropriate to minimize erosion and surface runoff during well pad construction and operation. Cut and fill slopes would be constructed such that stability would be maintained for the life of the activity.
- h. All cut and fill slopes would be such that stability can be maintained for the life of the activity.
- i. Diversion ditches would be constructed, if necessary, around the well site to prevent surface waters from entering the well site area.
- j. Water application may be implemented if necessary to minimize the amount of fugitive dust.
- k. All surface disturbing activities would be supervised by a qualified, responsible company representative who is aware of the terms and conditions of the APD and specifications in the approved plans.

10. Plan for Restoration of the Surface:

- a. Site reclamation would be accomplished for portions of the well pad not required for the continued operation of the well on this pad within six months of completion, weather permitting.
- b. The operator would control noxious weeds along access road use authorizations and well site by spraying or mechanical removal. A list of noxious weeds may be obtained from the Ute Tribe, BLM or the appropriate county extension office. On Ute Tribe administered land it is required that a Pesticide Use Proposal be submitted and approved prior to the application of herbicides, pesticides or possibly hazardous chemicals.

Rat and mouse holes would be filled and compacted from bottom to top immediately upon release of the drilling rig from location. Upon well completion, any hydrocarbons in the pit shall be removed in accordance with 43 CFR 3162.7-1. The reserve pit would be allowed to dry prior to the commencement of backfilling work. No attempts would be made to backfill the

reserve pit until it is free of standing water. Once dry, the liner would be torn and perforated before backfilling.

- c. The reserve pit and that portion of the location not needed for production facilities/operations would be recontoured to the approximate natural contours. Areas not used for production purposes would be backfilled and blended into the surrounding terrain, reseeded and erosion control measures installed. Mulching, erosion control measures and fertilization may be required to achieve acceptable stabilization. Back slopes and fore slopes would be reduced as practical and scarified with the contour. The reserved topsoil would be evenly distributed over the slopes and scarified along the contour. Slopes would be seeded with the Ute Tribe specified seed mix.
- d. Topsoil salvaged from the drill site and stored for more than one year would be placed at the location indicated on the well site layout drawing and graded to a depth optimum to maintain topsoil viability, seeded with the Ute Tribe prescribed seed mixture and covered with mulch for protection from wind and water erosion and to discourage the invasion of weeds.

11. Surface and Mineral Ownership:

- a. Surface & Mineral ownership – Ute Indian Tribe - 988 South 7500 East; Ft. Duchesne, Utah 84026; 435-725-4982.
- b. Surface use remains in place through Ute Indian Tribe Right-of-Ways H62-2007-210/211.
- c. A segment of the 14-21-46 DLB access and pipeline corridor would be constructed to connect to the proposed road and pipeline with surface use in place through Ute Indian Tribe Right-of-Ways H62-2007-190/191.

12. Other Information:

- a. Montgomery Archaeological Consultants has conducted a Class III archeological survey. A copy of the report has been submitted under separate cover to the appropriate agencies by Montgomery as MOAC Report No. 07-105, dated 4-27-2007.
- b. BBC would require that their personnel, contractors, and subcontractors to comply with Federal regulations intended to protect archeological and cultural resources.
- c. Project personnel and contractors would be educated on and subject to the following requirements:
  - No dogs or firearms within the Project Area;
  - No littering within the Project Area;

- Smoking within the Project Area would only be allowed in off-operator active locations or in specifically designated smoking areas. All cigarette butts would be placed in appropriate containers and not thrown on the ground or out windows of vehicles; personnel and contractors would abide by all fire restriction orders;
- Campfires or uncontained fires of any kind would be prohibited.
- Portable generators used in the Project Area would have spark arrestors

## OPERATOR CERTIFICATION

### Certification:

I hereby certify that I, or someone under my direction supervision, have inspected the drill site and access route proposed herein; that I am familiar with the conditions which currently exist; that I have full knowledge of state and Federal laws applicable to this operation; that the statements made in this APD package are, to the best of my knowledge, true and correct; and that the work associated with the operations proposed herein would be performed in conformity with this APD package and the terms and conditions under which it is approved. I also certify that I, or the company I represent, am responsible for the operations conducted under this application and that bond coverage is provided under Bill Barrett Corporations federal nationwide bond. These statements are subject to the provisions of 18 U.S.C. 1001 for the filings of false statements.

Executed this 13<sup>th</sup> day of Oct. 2010  
Name: Tracey Fallang  
Position Title: Regulatory Manager  
Address: 1099 18<sup>th</sup> Street, Suite 2300, Denver, CO 80202  
Telephone: 303-312-8134  
E-mail: tfallang@billbarrettcorp.com  
Field Representative Kary Eldredge / Bill Barrett Corporation  
Address: 1820 W. Highway 40, Roosevelt, UT 84066  
Telephone: 435-725-3515 (office); 435-724-6789 (mobile)  
E-mail: keldredge@billbarrettcorp.com

Tracey Fallang  
Tracey Fallang, Regulatory Manager

# GRANT OF EASEMENT FOR RIGHT-OF-WAY

ROW Serial No. H62-2007-210

TAAMS ID NO.: 6RW2007210

BIA TRANSACTION NO.: 687-13-00210-07

Well Site & Access Road – 5-21-46 DLB

Page 1 of 2

## KNOW ALL MEN BY THESE PRESENTS:

That the **UNITED STATES OF AMERICA**, as trustee for UTE INDIAN TRIBE acting by and through the **Superintendent of the Uintah and Ouray Agency**, as "Grantor", under authority contained in 209 DM 8 (39 F.R. 32166), 10 BIAM 3 (34 F.R.637) 230 DM 3 (20 F.R. 992) and Sec. 2.11 (34 F.R. 11109), pursuant and subject to the provisions of the Act of February 5, 1948 Stat. 17, (U.S.C. 323-328), and Part 169, Title 25, Code of Federal Regulations in consideration of:

**ZERO, (\$0.00) – As per the terms and conditions contained in the Lake Canyon Exploration & Development Agreement No. 14-20-H62-5500,** which is acknowledged, does hereby grant to:

**Bill Barrett Corporation, 1099 18<sup>th</sup> Street, Suite 2300, Denver, Colorado 80202**

Its successors and assignees hereinafter referred to as "Grantee" an easement for right-of-way.

In accordance with the attached proposal survey plat: **For the 5-21-46 DLB**

**G.L.O. Plat No. 48366, dated 4/20/2007 for Section 21, 28, Township 4 South, Range 6 West, U.S.B.& M. for the following:**

**Well Site:** **Located in the SW/4NW/4 (Well Bore & Well Pad), SE/4NW/4 (Well Pad) of Section 21, being 3.019 acres, m/l,**  
**Access Road:** **Located in the SE/4NW/4, E/2SW/4, S/2SE/4 of Section 21; and the NE/4NE/4 of Section 28, being 5,537.95' in length, and 30' in width, and 3.814 acres, m/l,**  
**Total ROW acreage 6.833, m/l**

Within the exterior boundaries of the Uintah & Ouray Reservation for the following purposes namely: The construction, maintenance, repair, inspection, protection, operation and removal of the **5-21-46 DLB** together with the necessary appurtenances thereto, on, over and across the land embraced within the right-of-way located in **Duchesne County, Utah.**

TO HAVE AND TO HOLD said easement and right-of-way unto the Grantee and unto its successors and assigns, together with prior existing right or adverse claim and is for the length of **TWENTY (20) YEARS,** beginning **June 21, 2007**, so long as easement shall actually be used for the purposes above specified. Consideration may be increased at five (5) year intervals if necessary to reflect the existing market prices.

This right-of-way shall be terminable in whole or in part by the grantor for any of the following causes upon 30 days' written notice and failure to the Grantee within said notice period to correct the basis of termination (25 CFR 169.20)

- A. Failure to comply with any term or condition of the grant or applicable regulations.
- B. A nonuse of the right-of-way for a consecutive two-year period for the purpose for which it was granted.
- C. An abandonment of the right-of-way. Failure of the Grantee to file with the Grantor an Affidavit of Completion pursuant to 25 CFR 169.16; Upon completion of construction, or in any case within two years of date of this easement granted in the case construction does not begin or is completed.



The conditions of this easement shall extend to and be binding upon and shall insure to the benefit of the successors and assignees of the Grantee. It has been determined that approval of this document is not such a major federal action significantly affecting the quality of the human environment as to required the preparation of an environmental impact statement under Section 102 (2)(c) of the National Environmental Policy Act of 1969 (42 U.S.C. 4332) (2) (c).

IN WITNESS WHEREOF, Grantor has executed this Grant of Easement for Right-of-Way this 21<sup>st</sup> day of **June, 2007** pursuant to authority delegated to the Assistant Secretary – Indian Affairs by 209 DM 8, 230 DM 1, and to the Western Regional Director by 3 IAM 4 (Release No. 99-03), and to the Superintendent/Field Representatives by 10 BIAM 11, as amended by Western Regional Release No. 97-1 an any further delegation needed to effectuate the reorganization embodied in DM Releases dated April, 2003.

UNITED STATES OF AMERICA  
U.S. Department of the Interior  
Uintah & Ouray Agency  
Fort Duchesne, UT 84026

By: *Dinah Peltier*  
Acting Superintendent

**ACKNOWLEDGEMENT OF SUPERINTENDENT**

STATE OF UTAH                    )  
  )ss  
COUNTY OF UINTAH         )

The foregoing instrument was acknowledged before me this 21<sup>st</sup> day of **June, 2007**, by **Dinah Peltier**, Acting Superintendent for the Bureau of Indian Affairs, Uintah & Ouray Agency.  
Witness my hand and official seal.

*Sarah A. Jack*  
Sarah A. Jack, Notary Public

My Commission Expires: June 16, 2010

RECEIVED October 13, 2010

*Lu*

# GRANT OF EASEMENT FOR RIGHT-OF-WAY

ROW Serial No. **H62-2007-211**

TAAMS ID NO.: **6RW2007211**

BIA TRANSACTION NO.: **687-13-00211-07**

Pipeline – **5-21-46 DLB**

Page 1 of 2

## KNOW ALL MEN BY THESE PRESENTS:

That the **UNITED STATES OF AMERICA**, as trustee for UTE INDIAN TRIBE acting by and through the **Superintendent of the Uintah and Ouray Agency**, as "Grantor", under authority contained in 209 DM 8 (39 F.R. 32166), 10 BIAM 3 (34 F.R.637) 230 DM 3 (20 F.R. 992) and Sec. 2.11 (34 F.R. 11109), pursuant and subject to the provisions of the Act of February 5, 1948 Stat. 17, (U.S.C. 323-328), and Part 169, Title 25, Code of Federal Regulations in consideration of:

**ZERO, (\$0.00) – As per the terms and conditions contained in the Lake Canyon Exploration & Development Agreement No. 14-20-H62-5500,** which is acknowledged, does hereby grant to:

**Bill Barrett Corporation, 1099 18<sup>th</sup> Street, Suite 2300, Denver, Colorado 80202**

Its successors and assignees hereinafter referred to as "Grantee" an easement for right-of-way.

In accordance with the attached proposal survey plat: **For the 5-21-46 DLB G.L.O. Plat No. 48367, dated 4/20/2007 for Section 21, 28, Township 4 South, Range 6 West, U.S.B. & M. for the following:**

**Pipeline: Located in the S/2NW/4, E/2SW/4, S/2SE/4 of Section 21; and the NE/4NE/4 of Section 28, being 5,485.46' in length, and 30' in width, and 3.778 acres, m/l, Total ROW acreage 3.778, m/l**

Within the exterior boundaries of the Uintah & Ouray Reservation for the following purposes namely: The construction, maintenance, repair, inspection, protection, operation and removal of the **5-21-46 DLB** together with the necessary appurtenances thereto, on, over and across the land embraced within the right-of-way located in **Duchesne County, Utah.**

TO HAVE AND TO HOLD said easement and right-of-way unto the Grantee and unto its successors and assigns, together with prior existing right or adverse claim and is for the length of **TWENTY (20) YEARS,** beginning **June 21, 2007,** so long as easement shall actually be used for the purposes above specified. Consideration may be increased at five (5) year intervals if necessary to reflect the existing market prices.

This right-of-way shall be terminable in whole or in part by the grantor for any of the following causes upon 30 days' written notice and failure to the Grantee within said notice period to correct the basis of termination (25 CFR 169.20)

- A. Failure to comply with any term or condition of the grant or applicable regulations.
- B. A nonuse of the right-of-way for a consecutive two-year period for the purpose for which it was granted.
- C. An abandonment of the right-of-way. Failure of the Grantee to file with the Grantor an Affidavit of Completion pursuant to 25 CFR 169.16; Upon completion of construction, or in any case within two years of date of this easement granted in the case construction does not begin or is completed.

RECEIVED October 13, 2010

ROW Serial No. H62-2007-211

TAAMS ID NO.: 6RW2007211

BIA TRANSACTION NO.: 687-13-00211-07

Pipeline – 5-21-46 DLB

Page 2 of 2

The conditions of this easement shall extend to and be binding upon and shall insure to the benefit of the successors and assignees of the Grantee. It has been determined that approval of this document is not such a major federal action significantly affecting the quality of the human environment as to required the preparation of an environmental impact statement under Section 102 (2)(c) of the National Environmental Policy Act of 1969 (42 U.S.C. 4332) (2) (c).

IN WITNESS WHEREOF, Grantor has executed this Grant of Easement for Right-of-Way this 21<sup>st</sup> day of June, 2007 pursuant to authority delegated to the Assistant Secretary – Indian Affairs by 209 DM 8, 230 DM 1, and to the Western Regional Director by 3 IAM 4 (Release No. 99-03), and to the Superintendent/Field Representatives by 10 BIAM 11, as amended by Western Regional Release No. 97-1 an any further delegation needed to effectuate the reorganization embodied in DM Releases dated April, 2003.

UNITED STATES OF AMERICA  
U.S. Department of the Interior  
Uintah & Ouray Agency  
Fort Duchesne, UT 84026

By: *Dinah Peltier*  
Acting Superintendent

**ACKNOWLEDGEMENT OF SUPERINTENDENT**

STATE OF UTAH                    )  
  )ss  
COUNTY OF UINTAH         )

The foregoing instrument was acknowledged before me this 21<sup>st</sup> day of June, 2007, by Dinah Peltier, Acting Superintendent for the Bureau of Indian Affairs, Uintah & Ouray Agency.  
Witness my hand and official seal.

*Sarah A. Jack*  
Sarah A. Jack, Notary Public

My Commission Expires: June 16, 2010

RECEIVED October 13, 2010

*[Handwritten initials]*

CULTURAL RESOURCE INVENTORY  
OF BILL BARRETT CORPORATION'S  
SEVEN PROPOSED DLB WELL LOCATIONS  
(T4S, R6W, SEC. 20, 21, 22, 34 and T5S R6W, SEC. 4),  
DUCHESNE COUNTY, UTAH

By:

André Jendresen

Prepared For:

Ute Indian Tribe  
Uintah and Ouray Agency  
and  
State of Utah  
Division of Wildlife Resources

Prepared Under Contract With:

Bill Barrett Corporation  
1099 18<sup>th</sup> Street, Suite 2300  
Denver, CO 80202

Prepared By:

Montgomery Archaeological Consultants, Inc.  
P.O. Box 219  
Moab, Utah 84532

MOAC Report No. 07-105

April 27, 2007

United States Department of Interior (FLPMA)  
Permit No. 07-UT-60122

State of Utah Antiquities Project (Survey)  
Permit No. U-07-MQ-0423i,s

Ute Tribal Permit No. A07-363

State of Utah Public Lands Policy  
Archaeological Survey Permit No. 117

RECEIVED October 13, 2010

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

RECEIVED

OCT 14 2010

FORM APPROVED  
OMB No. 1004-0136  
Expires July 31, 2010

APPLICATION FOR PERMIT TO DRILL OR REENTER

1a. Type of Work: <input checked="" type="checkbox"/> DRILL <input type="checkbox"/> REENTER		5. Lease Serial No. 1420H626108
1b. Type of Well: <input checked="" type="checkbox"/> Oil Well <input type="checkbox"/> Gas Well <input type="checkbox"/> Other <input type="checkbox"/> Single Zone <input checked="" type="checkbox"/> Multiple Zone		6. If Indian, Allottee or Tribe Name UINTAH AND OURAY
2. Name of Operator BILL BARRETT CORPORATION Contact: TRACEY FALLANG E-Mail: tfallang@billbarrettcorp.com		7. If Unit or CA Agreement, Name and No.
3a. Address 1099 18TH STREET SUITE 2300 DENVER, CO 80202		8. Lease Name and Well No. 5-21-46 DLB
3b. Phone No. (include area code) Ph: 303-312-8134		9. API Well No. 43-013-33658
4. Location of Well (Report location clearly and in accordance with any State requirements. *) At surface SWNW 1500FNL 1200FWL At proposed prod. zone SWNW 1980FNL 660FWL		10. Field and Pool, or Exploratory ALTAMONT
14. Distance in miles and direction from nearest town or post office* 14 MILES SW OF DUCHESNE, UT		11. Sec., T., R., M., or Blk. and Survey or Area Sec 21 T4S R6W Mer UBM
15. Distance from proposed location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any) 660	16. No. of Acres in Lease 640.00	12. County or Parish DUCHESNE
18. Distance from proposed location to nearest well, drilling, completed, applied for, on this lease, ft. 2540	19. Proposed Depth 7500 MD 7400 TVD	13. State UT
21. Elevations (Show whether DF, KB, RT, GL, etc.) 7098 GL	22. Approximate date work will start 06/30/2011	17. Spacing Unit dedicated to this well
		20. BLM/BIA Bond No. on file
		23. Estimated duration 65

24. Attachments

The following, completed in accordance with the requirements of Onshore Oil and Gas Order No. 1, shall be attached to this form:

- |   |  |
|---|--|
| 1. Well plat certified by a registered surveyor.  | 4. Bond to cover the operations unless covered by an existing bond on file (see Item 20 above).    |
| 2. A Drilling Plan.   | 5. Operator certification  |
| 3. A Surface Use Plan (if the location is on National Forest System Lands, the SUPO shall be filed with the appropriate Forest Service Office). | 6. Such other site specific information and/or plans as may be required by the authorized officer. |

25. Signature (Electronic Submission)	Name (Printed/Typed) TRACEY FALLANG Ph: 303-312-8134	Date 10/13/2010
Title REGULATORY MANAGER		
Approved by (Signature) 	Name (Printed/Typed) Jerry Kenczka	Date MAR 16 2011
Title Assistant Field Manager Lands & Mineral Resources	Office VERNAL FIELD OFFICE	

Application approval does not warrant or certify the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Conditions of approval, if any, are attached.

CONDITIONS OF APPROVAL ATTACHED

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

Additional Operator Remarks (see next page)

NOTICE OF APPROVAL

Electronic Submission #94776 verified by the BLM Well Information System  
For BILL BARRETT CORPORATION, sent to the Vernal  
Committed to AFMSS for processing by ROBIN HANSEN on 10/20/2010 (11RRH0247AE) RECEIVED

MAR 29 2011

UDOGM

\*\* BLM REVISED \*\* BLM REVISED \*\* BLM REVISED \*\* BLM REVISED \*\* BLM REVISED \*\*

11RRH0247AE

NO NOS

DIV. OF OIL, GAS & MINING



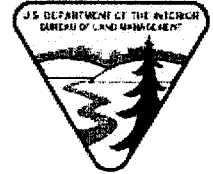


UNITED STATES DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT  
VERNAL FIELD OFFICE

170 South 500 East

VERNAL, UT 84078

(435) 781-4400



**CONDITIONS OF APPROVAL FOR APPLICATION FOR PERMIT TO DRILL**

Company: Bill Barrett Corporation  
Well No: 5-21-46 DLB  
API No: 43-013-33658

Location: SWNW, Sec. 21, T4S, R6W  
Lease No: 14-20-H62-6108  
Agreement: N/A

**OFFICE NUMBER: (435) 781-4400**

**OFFICE FAX NUMBER: (435) 781-3420**

**A COPY OF THESE CONDITIONS SHALL BE FURNISHED TO YOUR  
FIELD REPRESENTATIVE TO INSURE COMPLIANCE**

All lease and/or unit operations are to be conducted in such a manner that full compliance is made with the applicable laws, regulations (43 CFR Part 3160), and this approved Application for Permit to Drill including Surface and Downhole Conditions of Approval. The operator is considered fully responsible for the actions of his subcontractors. A copy of the approved APD must be on location during construction, drilling, and completion operations. **This permit is approved for a two (2) year period, or until lease expiration, whichever occurs first. An additional extension, up to two (2) years, may be applied for by sundry notice prior to expiration.**

**NOTIFICATION REQUIREMENTS**

Construction Activity (Notify Ute Tribe Energy & Minerals Dept. and BLM Environmental Scientist)	- The Ute Tribe Energy & Minerals Dept. and BLM Environmental Scientist shall be notified at least 48 hours in advance of any construction activity. The Ute Tribal office is open Monday through Thursday.
Construction Completion (Notify Ute Tribe Energy & Minerals Dept. and BLM Environmental Scientist)	- Upon completion of the pertinent APD/ROW construction, notify the Ute Tribe Energy & Minerals Dept. for a Tribal Technician to verify the Affidavit of Completion. Notify the BLM Environmental Scientist prior to moving on the drilling rig.
Spud Notice (Notify BLM Petroleum Engineer)	- Twenty-Four (24) hours prior to spudding the well.
Casing String & Cementing (Notify BLM Supv. Petroleum Tech.)	- Twenty-Four (24) hours prior to running casing and cementing all casing strings to: <a href="mailto:ut_vn_opreport@blm.gov">ut_vn_opreport@blm.gov</a> .
BOP & Related Equipment Tests (Notify BLM Supv. Petroleum Tech.)	- Twenty-Four (24) hours prior to initiating pressure tests.
First Production Notice (Notify BLM Petroleum Engineer)	- Within Five (5) business days after new well begins or production resumes after well has been off production for more than ninety (90) days.

***SURFACE USE PROGRAM  
CONDITIONS OF APPROVAL (COAs)***

- If there is an active Gilsonite mining operation within 2 miles of the well location, operator shall notify the Gilsonite operator at least 48 hours prior to any blasting during construction.
- A 5537.95' by 30' foot corridor right-of-way shall be approved. Upon completion of each pipeline in corridor, they shall be identified and filed with the Ute Tribe.
- The operator will strictly adhere to all Stipulations and Conditions of Approval associated with the Lake Canyon Environmental Assessment for the location.
- A qualified Archeologist accompanied by a Tribal Technician will monitor trenching construction of pipeline.
- The Ute Tribe Energy and Minerals Department is to be notified, in writing 48 hours prior to construction of pipeline.
- Construction notice shall be given to the department on the Ute Tribe workdays, which are Monday through Thursday. The company understands that they may be responsible for costs incurred by the Ute Tribe after hours.
- The company shall inform contractors to maintain construction of pipelines within the approved ROW's.
- The company shall assure the Ute Tribe that "ALL CONTRACTORS INCLUDING SUB-CONTRACTORS, LEASING CONTRACTORS, AND ETC," have acquired a current and valid Ute Tribal business license and have " Assess Permits" prior to construction, and will have these permits in all vehicles at all times.
- You are hereby notified that working under the "umbrella" of a company does not allow you to be in the field, and can be subject to those fines of the Ute Tribe Severance Tax Ordinance.
- Any deviation of submitted APD's, COAs, and ROWs applications the operator will notify the Ute Tribe in writing and will receive written authorization of any such change with appropriate authorization.
- The operator will implement "Safety and Emergency Plan." The operator's safety director will ensure its compliance.
- All operator employees and/or authorized personnel (sub-contractors) in the field will have approved applicable APD's, ROW permits/authorizations, and COAs on their person(s) during all phases of construction.
- All vehicular traffic, personnel movement, construction/restoration operations shall be confined to the area examined and approved, and to the existing roadways and/or evaluated access routes.
- All personnel shall refrain from collecting artifacts, any paleontological fossils, and from disturbing any significant cultural resources in the area.

- The personnel from the Ute Tribe/BIA shall be notified should cultural remains from subsurface deposits be exposed or identified during construction. All construction will cease.
- Upon completion of Application for Corridor Right-Way, the company will notify the Ute Tribe Energy and Minerals Department, so that Tribal Technician can verify Affidavit of Completion.
- All production facilities will be painted Olive Black to blend in with surrounding vegetation.
- Install a culvert at pipeline tie-in on main road. This will help control erosion in that area.
- Stockpile trees removed during construction between pad corners 2, 6, and 8. See well plat figure 1 included with APD for this site.
- No disturbance beyond the buffer flags in order to protect historic corral site adjacent to authorized road.

**DOWNHOLE PROGRAM  
CONDITIONS OF APPROVAL (COAs)**

**SITE SPECIFIC DOWNHOLE COAs:**

- Production casing cement shall be brought up and into the surface casing. The minimum cement top is 200 ft above the surface casing shoe.
- Oil (or Diesel) shall not be used in the water based mud system without prior approval. Written request for approval shall be required.

**All provisions outlined in Onshore Oil & Gas Order #2 Drilling Operations shall be strictly adhered to.** The following items are emphasized:

**DRILLING/COMPLETION/PRODUCING OPERATING STANDARDS**

- The spud date and time shall be reported orally to Vernal Field Office within 24 hours of spudding.
- Notify Vernal Field Office Supervisory Petroleum Engineering Technician at least 24 hours in advance of casing cementing operations and BOPE & casing pressure tests.
- All requirements listed in Onshore Order #2 III. E. Special Drilling Operations are applicable for air drilling of surface hole.
- Blowout prevention equipment (BOPE) shall remain in use until the well is completed or abandoned. Closing unit controls shall remain unobstructed and readily accessible at all times. Choke manifolds shall be located outside of the rig substructure.
- All BOPE components shall be inspected daily and those inspections shall be recorded in the daily drilling report. Components shall be operated and tested as required by Onshore Oil & Gas Order No. 2 to insure good mechanical working order. All BOPE pressure tests shall be performed by a test pump with a chart recorder and **NOT** by the rig pumps. Test shall be reported in the driller's log.
- BOP drills shall be initially conducted by each drilling crew within 24 hours of drilling out from under the surface casing and weekly thereafter as specified in Onshore Oil & Gas Order No. 2.
- Casing pressure tests are required before drilling out from under all casing strings set and cemented in place.
- No aggressive/fresh hard-banded drill pipe shall be used within casing.
- **Cement baskets shall not be run on surface casing.**
- The operator must report all shows of water or water-bearing sands to the BLM. If flowing water is encountered it must be sampled, analyzed, and a copy of the analyses submitted to the BLM Vernal Field Office.

- The operator must report encounters of all non oil & gas mineral resources (such as Gilsonite, tar sands, oil shale, trona, etc.) to the Vernal Field Office, in writing, within 5 working days of each encounter. Each report shall include the well name/number, well location, date and depth (from KB or GL) of encounter, vertical footage of the encounter and, the name of the person making the report (along with a telephone number) should the BLM need to obtain additional information.
- A complete set of angular deviation and directional surveys of a directional well will be submitted to the Vernal BLM office engineer within 30 days of the completion of the well.
- While actively drilling, chronologic drilling progress reports shall be filed directly with the BLM, Vernal Field Office on a weekly basis in sundry, letter format or e-mail to the Petroleum Engineers until the well is completed.
- A cement bond log (CBL) will be run from the production casing shoe to the top of cement and shall be utilized to determine the bond quality for the production casing. Submit a field copy of the CBL to this office.
- **Please submit an electronic copy of all other logs run on this well in LAS format to UT\_VN\_Welllogs@BLM.gov. This submission will supersede the requirement for submittal of paper logs to the BLM.**
- There shall be no deviation from the proposed drilling, completion, and/or workover program as approved. Safe drilling and operating practices must be observed. Any changes in operation must have prior approval from the BLM Vernal Field Office.



#### **OPERATING REQUIREMENT REMINDERS:**

- All wells, whether drilling, producing, suspended, or abandoned, shall be identified in accordance with 43 CFR 3162.6. There shall be a sign or marker with the name of the operator, lease serial number, well number, and surveyed description of the well.
- For information regarding production reporting, contact the Office of Natural Resources Revenue (ONRR) at [www.ONRR.gov](http://www.ONRR.gov).
- Should the well be successfully completed for production, the BLM Vernal Field office must be notified when it is placed in a producing status. Such notification will be by written communication and must be received in this office by not later than the fifth business day following the date on which the well is placed on production. The notification shall provide, as a minimum, the following informational items:
  - Operator name, address, and telephone number.
  - Well name and number.
  - Well location (¼, Sec., Twn, Rng, and P.M.).
  - Date well was placed in a producing status (date of first production for which royalty will be paid).
  - The nature of the well's production, (i.e., crude oil, or crude oil and casing head gas, or natural gas and entrained liquid hydrocarbons).
  - The Federal or Indian lease prefix and number on which the well is located; otherwise the non-Federal or non-Indian land category, i.e., State or private.
  - Unit agreement and/or participating area name and number, if applicable.
  - Communitization agreement number, if applicable.
- Any venting or flaring of gas shall be done in accordance with Notice to Lessees (NTL) 4A and needs prior approval from the BLM Vernal Field Office.
- All undesirable events (fires, accidents, blowouts, spills, discharges) as specified in NTL 3A will be reported to the BLM, Vernal Field Office. Major events, as defined in NTL3A, shall be reported verbally within 24 hours, followed by a written report within 15 days. "Other than Major Events" will be reported in writing within 15 days. "Minor Events" will be reported on the Monthly Report of Operations and Production.
- Whether the well is completed as a dry hole or as a producer, "Well Completion and Recompletion Report and Log" (BLM Form 3160-4) shall be submitted not later than 30 days after completion of the well or after completion of operations being performed, in accordance with 43 CFR 3162.4-1. Two copies of all logs run, core descriptions, and all other surveys or data obtained and compiled during the drilling, workover, and/or completion operations, shall be filed on BLM Form 3160-4. Submit with the well completion report a geologic report including, at a minimum, formation tops, and a summary and conclusions. Also include deviation surveys, sample descriptions, strip logs, core data, drill stem test data, and results of production tests if

performed. Samples (cuttings, fluid, and/or gas) shall be submitted only when requested by the BLM, Vernal Field Office.

- All off-lease storage, off-lease measurement, or commingling on-lease or off-lease, shall have prior written approval from the BLM Vernal Field Office.
- Oil and gas meters shall be calibrated in place prior to any deliveries. The BLM Vernal Field Office Petroleum Engineers will be provided with a date and time for the initial meter calibration and all future meter proving schedules. A copy of the meter calibration reports shall be submitted to the BLM Vernal Field Office. All measurement facilities will conform to the API standards for liquid hydrocarbons and the AGA standards for natural gas measurement. All measurement points shall be identified as the point of sale or allocation for royalty purposes.
- A schematic facilities diagram as required by Onshore Oil & Gas Order No. 3 shall be submitted to the BLM Vernal Field Office within 30 days of installation or first production, whichever occurs first. All site security regulations as specified in Onshore Oil & Gas Order No. 3 shall be adhered to. All product lines entering and leaving hydrocarbon storage tanks will be effectively sealed in accordance with Onshore Oil & Gas Order No. 3.
- Any additional construction, reconstruction, or alterations of facilities, including roads, gathering lines, batteries, etc., which will result in the disturbance of new ground, shall require the filing of a suitable plan and need prior approval of the BLM Vernal Field Office. Emergency approval may be obtained orally, but such approval does not waive the written report requirement.
- No location shall be constructed or moved, no well shall be plugged, and no drilling or workover equipment shall be removed from a well to be placed in a suspended status without prior approval of the BLM Vernal Field Office. If operations are to be suspended for more than 30 days, prior approval of the BLM Vernal Field Office shall be obtained and notification given before resumption of operations.
- Pursuant to Onshore Oil & Gas Order No. 7, this is authorization for pit disposal of water produced from this well for a period of 90 days from the date of initial production. A permanent disposal method must be approved by this office and in operation prior to the end of this 90-day period. In order to meet this deadline, an application for the proposed permanent disposal method shall be submitted along with any necessary water analyses, as soon as possible, but no later than 45 days after the date of first production. Any method of disposal which has not been approved prior to the end of the authorized 90-day period will be considered as an Incident of Noncompliance and will be grounds for issuing a shut-in order until an acceptable manner for disposing of said water is provided and approved by this office.
- Unless the plugging is to take place immediately upon receipt of oral approval, the Field Office Petroleum Engineers must be notified at least 24 hours in advance of the plugging of the well, in order that a representative may witness plugging operations. If a well is suspended or abandoned, all pits must be fenced immediately until they are backfilled. The "Subsequent Report of Abandonment" (Form BLM 3160-5) must be submitted within 30 days after the actual plugging of the well bore, showing location of plugs, amount of cement in each, and amount of casing left in hole, and the current status of the surface restoration.

<b>STATE OF UTAH</b> DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		<b>FORM 9</b>			
<b>SUNDRY NOTICES AND REPORTS ON WELLS</b>  Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.		<b>5. LEASE DESIGNATION AND SERIAL NUMBER:</b> 14-20-H62-6108			
		<b>6. IF INDIAN, ALLOTTEE OR TRIBE NAME:</b> UTE			
		<b>7. UNIT or CA AGREEMENT NAME:</b>			
<b>1. TYPE OF WELL</b> Gas Well		<b>8. WELL NAME and NUMBER:</b> 5-21-46- DLB			
<b>2. NAME OF OPERATOR:</b> BILL BARRETT CORP		<b>9. API NUMBER:</b> 43013336580000			
<b>3. ADDRESS OF OPERATOR:</b> 1099 18th Street Ste 2300 , Denver, CO, 80202		<b>9. FIELD and POOL or WILDCAT:</b> ALTAMONT			
<b>4. LOCATION OF WELL</b> <b>FOOTAGES AT SURFACE:</b> 1500 FNL 1200 FWL <b>QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:</b> Qtr/Qtr: SWNW Section: 21 Township: 04.0S Range: 06.0W Meridian: U		<b>COUNTY:</b> DUCHESNE			
		<b>STATE:</b> UTAH			
<b>11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA</b>					
<b>TYPE OF SUBMISSION</b>	<b>TYPE OF ACTION</b>				
<input checked="" type="checkbox"/> <b>NOTICE OF INTENT</b> Approximate date work will start: 5/16/2011  <input type="checkbox"/> <b>SUBSEQUENT REPORT</b> Date of Work Completion:  <input type="checkbox"/> <b>SPUD REPORT</b> Date of Spud:  <input type="checkbox"/> <b>DRILLING REPORT</b> Report Date:	<table style="width: 100%; border: none;"> <tr> <td style="width: 33%; vertical-align: top;"> <input type="checkbox"/> ACIDIZE  <input type="checkbox"/> CHANGE TO PREVIOUS PLANS  <input type="checkbox"/> CHANGE WELL STATUS  <input type="checkbox"/> DEEPEN  <input type="checkbox"/> OPERATOR CHANGE  <input type="checkbox"/> PRODUCTION START OR RESUME  <input type="checkbox"/> REPERFORATE CURRENT FORMATION  <input type="checkbox"/> TUBING REPAIR  <input type="checkbox"/> WATER SHUTOFF  <input type="checkbox"/> WILDCAT WELL DETERMINATION         </td> <td style="width: 33%; vertical-align: top;"> <input type="checkbox"/> ALTER CASING  <input type="checkbox"/> CHANGE TUBING  <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS  <input type="checkbox"/> FRACTURE TREAT  <input type="checkbox"/> PLUG AND ABANDON  <input type="checkbox"/> RECLAMATION OF WELL SITE  <input type="checkbox"/> SIDETRACK TO REPAIR WELL  <input type="checkbox"/> VENT OR FLARE  <input type="checkbox"/> SI TA STATUS EXTENSION  <input type="checkbox"/> OTHER         </td> <td style="width: 33%; vertical-align: top;"> <input type="checkbox"/> CASING REPAIR  <input type="checkbox"/> CHANGE WELL NAME  <input type="checkbox"/> CONVERT WELL TYPE  <input type="checkbox"/> NEW CONSTRUCTION  <input type="checkbox"/> PLUG BACK  <input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION  <input type="checkbox"/> TEMPORARY ABANDON  <input type="checkbox"/> WATER DISPOSAL  <input checked="" type="checkbox"/> <b>APD EXTENSION</b>          OTHER: <span style="border: 1px solid black; display: inline-block; width: 100px; height: 15px; vertical-align: middle;"></span> </td> </tr> </table>		<input type="checkbox"/> ACIDIZE <input type="checkbox"/> CHANGE TO PREVIOUS PLANS <input type="checkbox"/> CHANGE WELL STATUS <input type="checkbox"/> DEEPEN <input type="checkbox"/> OPERATOR CHANGE <input type="checkbox"/> PRODUCTION START OR RESUME <input type="checkbox"/> REPERFORATE CURRENT FORMATION <input type="checkbox"/> TUBING REPAIR <input type="checkbox"/> WATER SHUTOFF <input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> ALTER CASING <input type="checkbox"/> CHANGE TUBING <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS <input type="checkbox"/> FRACTURE TREAT <input type="checkbox"/> PLUG AND ABANDON <input type="checkbox"/> RECLAMATION OF WELL SITE <input type="checkbox"/> SIDETRACK TO REPAIR WELL <input type="checkbox"/> VENT OR FLARE <input type="checkbox"/> SI TA STATUS EXTENSION <input type="checkbox"/> OTHER	<input type="checkbox"/> CASING REPAIR <input type="checkbox"/> CHANGE WELL NAME <input type="checkbox"/> CONVERT WELL TYPE <input type="checkbox"/> NEW CONSTRUCTION <input type="checkbox"/> PLUG BACK <input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION <input type="checkbox"/> TEMPORARY ABANDON <input type="checkbox"/> WATER DISPOSAL <input checked="" type="checkbox"/> <b>APD EXTENSION</b> OTHER: <span style="border: 1px solid black; display: inline-block; width: 100px; height: 15px; vertical-align: middle;"></span>
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<b>12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.</b> BBC is requesting a one year extension to this APD that expires 5/16/2011. Per previous conversations had between Tracey Fallang of BBC and Brad Hill, an extension may be granted on this APD due to the fact that federal authority approval was recently received.					
		<b>Approved by the Utah Division of Oil, Gas and Mining</b>  <b>Date:</b> 04/14/2011 <b>By:</b>			
<b>NAME (PLEASE PRINT)</b> Brady Riley		<b>PHONE NUMBER</b> 303 312-8115			
<b>SIGNATURE</b> N/A		<b>TITLE</b> Permit Analyst			
		<b>DATE</b> 4/8/2011			



## The Utah Division of Oil, Gas, and Mining

- State of Utah  
- Department of Natural Resources

Electronic Permitting System - Sundry Notices

### Request for Permit Extension Validation Well Number 43013336580000

**API:** 43013336580000

**Well Name:** 5-21-46- DLB

**Location:** 1500 FNL 1200 FWL QTR SWNW SEC 21 TWP 040S RNG 060W MER U

**Company Permit Issued to:** BILL BARRETT CORP

**Date Original Permit Issued:** 5/16/2007

The undersigned as owner with legal rights to drill on the property as permitted above, hereby verifies that the information as submitted in the previously approved application to drill, remains valid and does not require revision. Following is a checklist of some items related to the application, which should be verified.

- If located on private land, has the ownership changed, if so, has the surface agreement been updated? ☐ Yes ☒ No
- Have any wells been drilled in the vicinity of the proposed well which would affect the spacing or siting requirements for this location? ☐ Yes ☒ No
- Has there been any unit or other agreements put in place that could affect the permitting or operation of this proposed well? ☐ Yes ☒ No
- Have there been any changes to the access route including ownership, or rightof- way, which could affect the proposed location? ☐ Yes ☒ No
- Has the approved source of water for drilling changed? ☐ Yes ☒ No
- Have there been any physical changes to the surface location or access route which will require a change in plans from what was discussed at the onsite evaluation? ☐ Yes ☒ No
- Is bonding still in place, which covers this proposed well? ☒ Yes ☐ No

**Signature:** Brady Riley

**Date:** 4/8/2011

**Title:** Permit Analyst **Representing:** BILL BARRETT CORP

**RECEIVED** Apr. 08, 2011

<b>STATE OF UTAH</b> DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		<b>FORM 9</b>			
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<b>PHONE NUMBER:</b> 303 312-8164 Ext		<b>9. FIELD and POOL or WILDCAT:</b> ALTAMONT			
<b>COUNTY:</b> DUCHESNE		<b>STATE:</b> UTAH			
11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA					
<b>TYPE OF SUBMISSION</b>	<b>TYPE OF ACTION</b>				
<input checked="" type="checkbox"/> <b>NOTICE OF INTENT</b> Approximate date work will start: 12/1/2012  <input type="checkbox"/> <b>SUBSEQUENT REPORT</b> Date of Work Completion:  <input type="checkbox"/> <b>SPUD REPORT</b> Date of Spud:  <input type="checkbox"/> <b>DRILLING REPORT</b> Report Date:	<table style="width: 100%; border: none;"> <tr> <td style="width: 33%; vertical-align: top;"> <input type="checkbox"/> ACIDIZE  <input type="checkbox"/> CHANGE TO PREVIOUS PLANS  <input type="checkbox"/> CHANGE WELL STATUS  <input type="checkbox"/> DEEPEN  <input type="checkbox"/> OPERATOR CHANGE  <input type="checkbox"/> PRODUCTION START OR RESUME  <input type="checkbox"/> REPERFORATE CURRENT FORMATION  <input type="checkbox"/> TUBING REPAIR  <input type="checkbox"/> WATER SHUTOFF  <input type="checkbox"/> WILDCAT WELL DETERMINATION         </td> <td style="width: 33%; vertical-align: top;"> <input type="checkbox"/> ALTER CASING  <input type="checkbox"/> CHANGE TUBING  <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS  <input type="checkbox"/> FRACTURE TREAT  <input type="checkbox"/> PLUG AND ABANDON  <input type="checkbox"/> RECLAMATION OF WELL SITE  <input type="checkbox"/> SIDETRACK TO REPAIR WELL  <input type="checkbox"/> VENT OR FLARE  <input type="checkbox"/> SI TA STATUS EXTENSION  <input type="checkbox"/> OTHER         </td> <td style="width: 33%; vertical-align: top;"> <input type="checkbox"/> CASING REPAIR  <input type="checkbox"/> CHANGE WELL NAME  <input type="checkbox"/> CONVERT WELL TYPE  <input type="checkbox"/> NEW CONSTRUCTION  <input type="checkbox"/> PLUG BACK  <input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION  <input type="checkbox"/> TEMPORARY ABANDON  <input type="checkbox"/> WATER DISPOSAL  <input checked="" type="checkbox"/> <b>APD EXTENSION</b>          OTHER: <span style="border: 1px solid black; display: inline-block; width: 100px; height: 15px;"></span> </td> </tr> </table>		<input type="checkbox"/> ACIDIZE <input type="checkbox"/> CHANGE TO PREVIOUS PLANS <input type="checkbox"/> CHANGE WELL STATUS <input type="checkbox"/> DEEPEN <input type="checkbox"/> OPERATOR CHANGE <input type="checkbox"/> PRODUCTION START OR RESUME <input type="checkbox"/> REPERFORATE CURRENT FORMATION <input type="checkbox"/> TUBING REPAIR <input type="checkbox"/> WATER SHUTOFF <input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> ALTER CASING <input type="checkbox"/> CHANGE TUBING <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS <input type="checkbox"/> FRACTURE TREAT <input type="checkbox"/> PLUG AND ABANDON <input type="checkbox"/> RECLAMATION OF WELL SITE <input type="checkbox"/> SIDETRACK TO REPAIR WELL <input type="checkbox"/> VENT OR FLARE <input type="checkbox"/> SI TA STATUS EXTENSION <input type="checkbox"/> OTHER	<input type="checkbox"/> CASING REPAIR <input type="checkbox"/> CHANGE WELL NAME <input type="checkbox"/> CONVERT WELL TYPE <input type="checkbox"/> NEW CONSTRUCTION <input type="checkbox"/> PLUG BACK <input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION <input type="checkbox"/> TEMPORARY ABANDON <input type="checkbox"/> WATER DISPOSAL <input checked="" type="checkbox"/> <b>APD EXTENSION</b> OTHER: <span style="border: 1px solid black; display: inline-block; width: 100px; height: 15px;"></span>
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12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc. This sundry is being submitted to request a one year extension of the subject APD. Drilling operations are scheduled to begin on 12/01/2012 for this well.					
<b>Approved by the Utah Division of Oil, Gas and Mining</b>  <b>Date:</b> April 09, 2012 <b>By:</b>					
<b>NAME (PLEASE PRINT)</b> Venessa Langmacher	<b>PHONE NUMBER</b> 303 312-8172	<b>TITLE</b> Senior Permit Analyst			
<b>SIGNATURE</b> N/A		<b>DATE</b> 4/2/2012			





**The Utah Division of Oil, Gas, and Mining**

- State of Utah
- Department of Natural Resources

Electronic Permitting System - Sundry Notices

**Request for Permit Extension Validation Well Number 43013336580000**

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Location: 1500 FNL 1200 FWL QTR SWNW SEC 21 TWP 040S RNG 060W MER U

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Date Original Permit Issued: 5/16/2007

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- Is bonding still in place, which covers this proposed well? ☒ Yes ☐ No

Signature: Venessa Langmacher

Date: 4/2/2012

Title: Senior Permit Analyst Representing: BILL BARRETT CORP

<b>STATE OF UTAH</b> DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		<b>FORM 9</b>			
<b>SUNDRY NOTICES AND REPORTS ON WELLS</b>  Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.		<b>5. LEASE DESIGNATION AND SERIAL NUMBER:</b> 14-20-H62-6108			
<b>1. TYPE OF WELL</b> Gas Well		<b>6. IF INDIAN, ALLOTTEE OR TRIBE NAME:</b> UTE			
<b>2. NAME OF OPERATOR:</b> BILL BARRETT CORP		<b>7. UNIT or CA AGREEMENT NAME:</b>			
<b>3. ADDRESS OF OPERATOR:</b> 1099 18th Street Ste 2300 , Denver, CO, 80202		<b>8. WELL NAME and NUMBER:</b> 5-21-46- DLB			
<b>4. LOCATION OF WELL</b> <b>FOOTAGES AT SURFACE:</b> 1500 FNL 1200 FWL <b>QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:</b> Qtr/Qtr: SWNW Section: 21 Township: 04.0S Range: 06.0W Meridian: U		<b>9. API NUMBER:</b> 43013336580000			
<b>PHONE NUMBER:</b> 303 312-8164 Ext		<b>9. FIELD and POOL or WILDCAT:</b> ALTAMONT			
<b>COUNTY:</b> DUCHESNE		<b>STATE:</b> UTAH			
11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA					
<b>TYPE OF SUBMISSION</b>	<b>TYPE OF ACTION</b>				
<input checked="" type="checkbox"/> <b>NOTICE OF INTENT</b> Approximate date work will start: 12/1/2012  <input type="checkbox"/> <b>SUBSEQUENT REPORT</b> Date of Work Completion:  <input type="checkbox"/> <b>SPUD REPORT</b> Date of Spud:  <input type="checkbox"/> <b>DRILLING REPORT</b> Report Date:	<table style="width: 100%; border: none;"> <tr> <td style="width: 33%; vertical-align: top;"> <input type="checkbox"/> ACIDIZE  <input type="checkbox"/> CHANGE TO PREVIOUS PLANS  <input type="checkbox"/> CHANGE WELL STATUS  <input type="checkbox"/> DEEPEN  <input type="checkbox"/> OPERATOR CHANGE  <input type="checkbox"/> PRODUCTION START OR RESUME  <input type="checkbox"/> REPERFORATE CURRENT FORMATION  <input type="checkbox"/> TUBING REPAIR  <input type="checkbox"/> WATER SHUTOFF  <input type="checkbox"/> WILDCAT WELL DETERMINATION         </td> <td style="width: 33%; vertical-align: top;"> <input type="checkbox"/> ALTER CASING  <input type="checkbox"/> CHANGE TUBING  <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS  <input type="checkbox"/> FRACTURE TREAT  <input type="checkbox"/> PLUG AND ABANDON  <input type="checkbox"/> RECLAMATION OF WELL SITE  <input type="checkbox"/> SIDETRACK TO REPAIR WELL  <input type="checkbox"/> VENT OR FLARE  <input type="checkbox"/> SI TA STATUS EXTENSION  <input type="checkbox"/> OTHER         </td> <td style="width: 33%; vertical-align: top;"> <input type="checkbox"/> CASING REPAIR  <input type="checkbox"/> CHANGE WELL NAME  <input type="checkbox"/> CONVERT WELL TYPE  <input type="checkbox"/> NEW CONSTRUCTION  <input type="checkbox"/> PLUG BACK  <input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION  <input type="checkbox"/> TEMPORARY ABANDON  <input type="checkbox"/> WATER DISPOSAL  <input checked="" type="checkbox"/> <b>APD EXTENSION</b>          OTHER: <span style="border: 1px solid black; display: inline-block; width: 100px; height: 15px;"></span> </td> </tr> </table>		<input type="checkbox"/> ACIDIZE <input type="checkbox"/> CHANGE TO PREVIOUS PLANS <input type="checkbox"/> CHANGE WELL STATUS <input type="checkbox"/> DEEPEN <input type="checkbox"/> OPERATOR CHANGE <input type="checkbox"/> PRODUCTION START OR RESUME <input type="checkbox"/> REPERFORATE CURRENT FORMATION <input type="checkbox"/> TUBING REPAIR <input type="checkbox"/> WATER SHUTOFF <input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> ALTER CASING <input type="checkbox"/> CHANGE TUBING <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS <input type="checkbox"/> FRACTURE TREAT <input type="checkbox"/> PLUG AND ABANDON <input type="checkbox"/> RECLAMATION OF WELL SITE <input type="checkbox"/> SIDETRACK TO REPAIR WELL <input type="checkbox"/> VENT OR FLARE <input type="checkbox"/> SI TA STATUS EXTENSION <input type="checkbox"/> OTHER	<input type="checkbox"/> CASING REPAIR <input type="checkbox"/> CHANGE WELL NAME <input type="checkbox"/> CONVERT WELL TYPE <input type="checkbox"/> NEW CONSTRUCTION <input type="checkbox"/> PLUG BACK <input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION <input type="checkbox"/> TEMPORARY ABANDON <input type="checkbox"/> WATER DISPOSAL <input checked="" type="checkbox"/> <b>APD EXTENSION</b> OTHER: <span style="border: 1px solid black; display: inline-block; width: 100px; height: 15px;"></span>
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12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc. This sundry is being submitted to request a one year extension of the subject APD. Drilling operations are scheduled to begin on 12/01/2012 for this well.					
<b>Approved by the Utah Division of Oil, Gas and Mining</b>  <b>Date:</b> April 09, 2012 <b>By:</b>					
<b>NAME (PLEASE PRINT)</b> Venessa Langmacher	<b>PHONE NUMBER</b> 303 312-8172	<b>TITLE</b> Senior Permit Analyst			
<b>SIGNATURE</b> N/A		<b>DATE</b> 4/2/2012			



**The Utah Division of Oil, Gas, and Mining**

- State of Utah
- Department of Natural Resources

**Electronic Permitting System - Sundry Notices**

**Request for Permit Extension Validation Well Number 43013336580000**

**API:** 43013336580000

**Well Name:** 5-21-46- DLB

**Location:** 1500 FNL 1200 FWL QTR SWNW SEC 21 TWP 040S RNG 060W MER U

**Company Permit Issued to:** BILL BARRETT CORP

**Date Original Permit Issued:** 5/16/2007

The undersigned as owner with legal rights to drill on the property as permitted above, hereby verifies that the information as submitted in the previously approved application to drill, remains valid and does not require revision. Following is a checklist of some items related to the application, which should be verified.

- If located on private land, has the ownership changed, if so, has the surface agreement been updated? ☒ Yes ☐ No
- Have any wells been drilled in the vicinity of the proposed well which would affect the spacing or siting requirements for this location? ☐ Yes ☒ No
- Has there been any unit or other agreements put in place that could affect the permitting or operation of this proposed well? ☐ Yes ☒ No
- Have there been any changes to the access route including ownership, or rightof- way, which could affect the proposed location? ☐ Yes ☒ No
- Has the approved source of water for drilling changed? ☐ Yes ☒ No
- Have there been any physical changes to the surface location or access route which will require a change in plans from what was discussed at the onsite evaluation? ☐ Yes ☒ No
- Is bonding still in place, which covers this proposed well? ☒ Yes ☐ No

**Signature:** Venessa Langmacher

**Date:** 4/2/2012

**Title:** Senior Permit Analyst **Representing:** BILL BARRETT CORP

<b>STATE OF UTAH</b> DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		<b>FORM 9</b>
<b>SUNDRY NOTICES AND REPORTS ON WELLS</b>  Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.		<b>5. LEASE DESIGNATION AND SERIAL NUMBER:</b> 14-20-H62-6108
<b>1. TYPE OF WELL</b> Gas Well		<b>6. IF INDIAN, ALLOTTEE OR TRIBE NAME:</b> UTE
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<b>3. ADDRESS OF OPERATOR:</b> 1099 18th Street Ste 2300 , Denver, CO, 80202		<b>8. WELL NAME and NUMBER:</b> LC TRIBAL 1H-21-46
<b>4. LOCATION OF WELL</b> <b>FOOTAGES AT SURFACE:</b> 1520 FNL 1199 FWL <b>QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:</b> Qtr/Qtr: SWNW Section: 21 Township: 04.0S Range: 06.0W Meridian: U		<b>9. API NUMBER:</b> 43013336580000
<b>5. FIELD and POOL or WILDCAT:</b> ALTAMONT		<b>6. COUNTY:</b> DUCHESNE
<b>7. STATE:</b> UTAH		

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION		
<input checked="" type="checkbox"/> <b>NOTICE OF INTENT</b> Approximate date work will start: <b>11/1/2012</b>	<input type="checkbox"/> ACIDIZE <input checked="" type="checkbox"/> CHANGE TO PREVIOUS PLANS <input type="checkbox"/> CHANGE WELL STATUS <input type="checkbox"/> DEEPEN <input type="checkbox"/> OPERATOR CHANGE <input type="checkbox"/> PRODUCTION START OR RESUME <input type="checkbox"/> REPERFORATE CURRENT FORMATION <input type="checkbox"/> TUBING REPAIR <input type="checkbox"/> WATER SHUTOFF <input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> ALTER CASING <input type="checkbox"/> CHANGE TUBING <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS <input type="checkbox"/> FRACTURE TREAT <input type="checkbox"/> PLUG AND ABANDON <input type="checkbox"/> RECLAMATION OF WELL SITE <input type="checkbox"/> SIDETRACK TO REPAIR WELL <input type="checkbox"/> VENT OR FLARE <input type="checkbox"/> SI TA STATUS EXTENSION <input type="checkbox"/> OTHER	<input type="checkbox"/> CASING REPAIR <input checked="" type="checkbox"/> CHANGE WELL NAME <input type="checkbox"/> CONVERT WELL TYPE <input type="checkbox"/> NEW CONSTRUCTION <input type="checkbox"/> PLUG BACK <input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION <input type="checkbox"/> TEMPORARY ABANDON <input type="checkbox"/> WATER DISPOSAL <input type="checkbox"/> APD EXTENSION OTHER: <input style="width: 100px;" type="text"/>
<input type="checkbox"/> <b>SUBSEQUENT REPORT</b> Date of Work Completion:			
<input type="checkbox"/> <b>SPUD REPORT</b> Date of Spud:			
<input type="checkbox"/> <b>DRILLING REPORT</b> Report Date:			

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.  

BBC requests to change this vertical well to a horizontal location to accommodate a dual well pad. As a result of the horizontal drilling, we are requesting that the well name be changed to LC Tribal 1H-21-46.

New surface location: 1520' FNL and 1199' FWL, SW NW Section 21, T4S-R6W. New bottom hole: 800' FNL and 800' FEL, NE NE Section 21, T4S-R6W. See revised plat, drilling program, directional plan, horizontal letter and approval from the tribe attached.

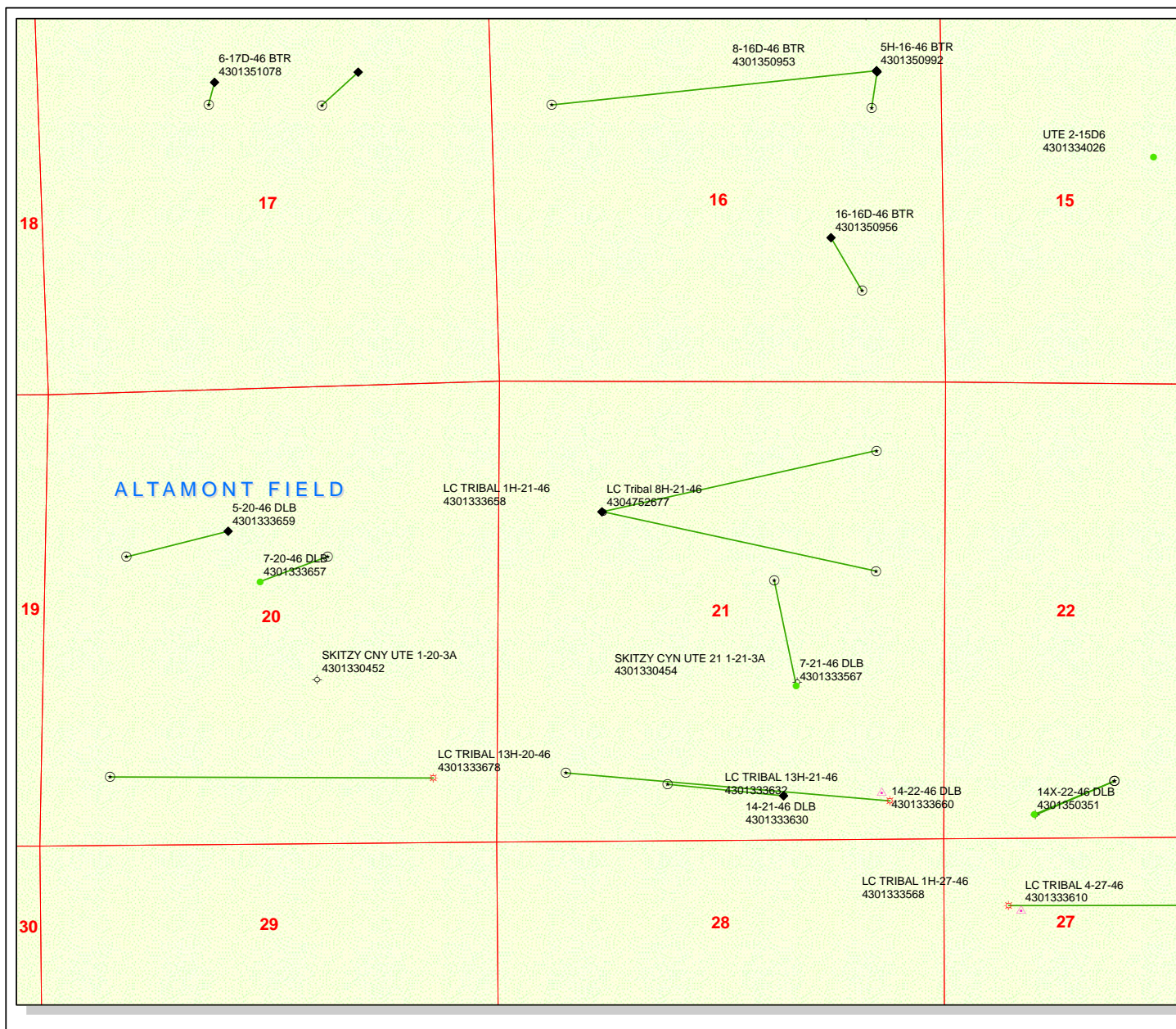
**Approved by the**  
**Utah Division of**  
**Oil, Gas and Mining**

**Date:** May 21, 2012

**By:**

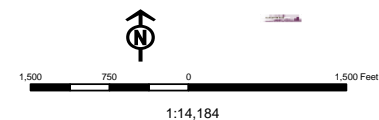
<b>NAME (PLEASE PRINT)</b> Venessa Langmacher	<b>PHONE NUMBER</b> 303 312-8172	<b>TITLE</b> Senior Permit Analyst
<b>SIGNATURE</b> N/A	<b>DATE</b> 5/14/2012	

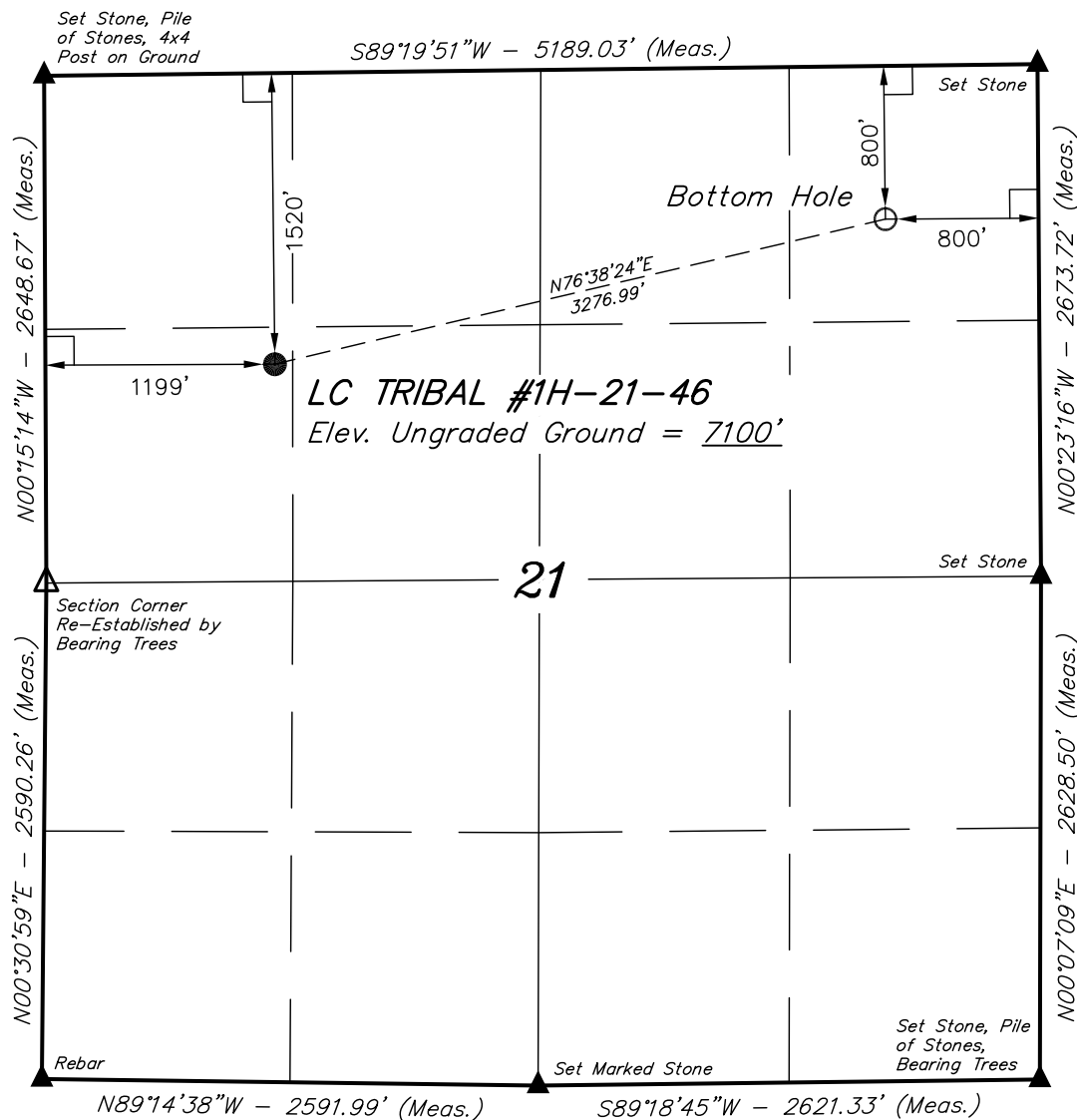




**API Number: 4301333658**  
**Well Name: LC TRIBAL 1H-21-46**  
**Township T0.4 . Range R0.6 . Section 21**  
**Meridian: UBM**  
**Operator: BILL BARRETT CORP**  
 Map Prepared:  
 Map Produced by Diana Mason

Units	Wells Query
<b>STATUS</b>	<b>Status</b>
ACTIVE	APD - Approved Permit
EXPLORATORY	DRL - Spudded (Drilling Commenced)
GAS STORAGE	GW - Gas Injection
NF PP OIL	GS - Gas Storage
NF SECONDARY	LA - Location Abandoned
PI OIL	LOC - New Location
PP GAS	OPS - Operation Suspended
PP GEOTHERM	PA - Plugged Abandoned
PP OIL	PGW - Producing Gas Well
SECONDARY	POW - Producing Oil Well
TERMINATED	RET - Returned APD
<b>Fields</b>	<b>Fields</b>
Unknown	SGW - Shut-in Gas Well
ABANDONED	SOW - Shut-in Oil Well
ACTIVE	TA - Temp. Abandoned
COMBINED	TW - Test Well
INACTIVE	WDW - Water Disposal
STORAGE	WW - Water Injection Well
TERMINATED	WSW - Water Supply Well



**T4S, R6W, U.S.B.&M.****LEGEND:**

└─┘ = 90° SYMBOL

● = PROPOSED WELL HEAD.

▲ = SECTION CORNERS LOCATED

△ = SECTION CORNERS  
RE-ESTABLISHED.  
(Not Set on Ground)

NAD 83 (TARGET BOTTOM HOLE)	NAD 83 (SURFACE LOCATION)
LATITUDE = 40°07'25.30" (40.123694)	LATITUDE = 40°07'17.74" (40.121594)
LONGITUDE = 110°33'40.98" (110.561383)	LONGITUDE = 110°34'21.98" (110.572772)
NAD 27 (TARGET BOTTOM HOLE)	NAD 27 (SURFACE LOCATION)
LATITUDE = 40°07'25.45" (40.123736)	LATITUDE = 40°07'17.89" (40.121636)
LONGITUDE = 110°33'38.42" (110.560672)	LONGITUDE = 110°34'19.42" (110.572061)

**BILL BARRETT CORPORATION**

Well location, LC TRIBAL #1H-21-46, located as shown in the SW 1/4 NW 1/4 of Section 21, T4S, R6W, U.S.B.&M., Duchesne County, Utah.

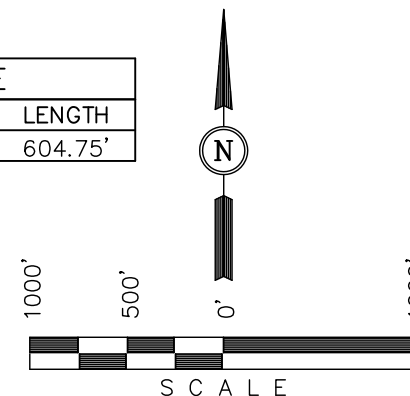
**BASIS OF ELEVATION**

BENCH MARK (M67) LOCATED IN THE SW 1/4 OF SECTION 9, T5S, R4W, U.S.B.&M., TAKEN FROM THE DUCHESNE SE, QUADRANGLE, UTAH, DUCHESNE COUNTY, 7.5 MINUTE QUAD. (TOPOGRAPHIC MAP) PUBLISHED BY THE UNITED STATES DEPARTMENT OF THE INTERIOR, GEOLOGICAL SURVEY. SAID ELEVATION IS MARKED ON CAP AS BEING 6097 FEET.

**BASIS OF BEARINGS**

BASIS OF BEARINGS IS A G.P.S. OBSERVATION.

LINE TABLE		
LINE	DIRECTION	LENGTH
L1	S39°47'53"W	604.75'

**CERTIFICATE**

THIS IS TO CERTIFY THAT THE ABOVE PLAT WAS PREPARED FROM FIELD NOTES OF ACTUAL SURVEYS MADE BY ME OR UNDER MY SUPERVISION AND THAT THE SAME ARE TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.

**ROBERT L. KAY**  
REGISTERED LAND SURVEYOR  
REGISTRATION NO. 161319  
STATE OF UTAH  
03-20-12

REVISED: 03-14-12 T.B.  
REVISED: 03-01-12 T.B.  
REVISED: 01-18-12 T.B.

**UINTAH ENGINEERING & LAND SURVEYING**  
85 SOUTH 200 EAST - VERNAL, UTAH 84078  
(435) 789-1017

SCALE 1" = 1000'	DATE SURVEYED: 04-16-07	DATE DRAWN: 04-20-07
PARTY D.R. K.A. P.M.	REFERENCES G.L.O. PLAT	
WEATHER COOL	FILE BILL BARRETT CORPORATION	

**RECEIVED: May. 14, 2012**



**DRILLING PLAN**

BILL BARRETT CORPORATION

LC Tribal 1H-21-46

SHL: SW NW, 1520' FNL and 1199' FWL, Section 21, T4S-R6W

BHL: NE NE, 800' FNL and 800' FEL, Section 21, T4S-R6W

Duchesne Co., UT

Bill Barrett Corporation (BBC) intends to drill a horizontal through the prospective zone within the Uteland Butte.

**1 - 3. Estimated Tops of Geological Markers and Formations Expected to Contain Water, Oil and Gas and Other Minerals**

**HORIZONTAL LEG FORMATION TOPS**

<b><u>Formation</u></b>	<b><u>Depth – MD</u></b>	<b><u>Depth - TVD</u></b>
Green River	1,910'	1,910'
Surface casing	1,700'	1,700'
Mahogany	2,580'	2,580'
TGR3	3,655'	3,655'
Douglas Creek	4,450'	4,450'
3 PT Marker	4,820'	4,820'
Black Shale Facies	5,175'	5,175'
Castle Peak	5,420'	5,420'
*Uteland Butte	5,918'	5,828'
CR1A Base	6,070'	5,893'
TD	8,951'	6,010'

\*PROSPECTIVE PAY

The Uteland Butte CR1 is the primary objective for oil/gas.

**4. Casing Program**

<b><u>Hole Size</u></b>	<b><u>SETTING DEPTH</u></b>		<b><u>Casing Size</u></b>	<b><u>Casing Weight</u></b>	<b><u>Casing Grade</u></b>	<b><u>Thread</u></b>	<b><u>Condition</u></b>
	<b><u>(FROM)</u></b>	<b><u>(TO)</u></b>					
12-1/4"	surface	1,700'	9 5/8"	36.0 ppf	J or K 55	ST&C	New
8 3/4"	surface	6,229'	7"	26.0 ppf	P-110	LT&C	New
6 1/8"	surface	8,951'	4 1/2" Liner with 4-1/2" Tieback for frac	11.6 ppf	P-110	LT&C	New

Drilling Plan  
LC Tribal 1H-21-46  
Duchesne Co., UT

## 5. Cementing Program

9 5/8" Surface Casing	Lead with approximately 220 sx Halliburton Light Premium cement with additives mixed at 11.0 ppg (yield = 3.16 ft <sup>3</sup> /sx). TOC @ Surface Tail with 210 sx Premium 14.8 ppg (yield = 1.36 ft <sup>3</sup> /sx) calculated hole volume with 75% excess. TOC @ 1,200' Top out cement, if required: 100 sx of Premium cement with additives mixed at 15.8 ppg (yield = 1.17 ft <sup>3</sup> /sk)
7" Intermediate Casing	Lead with approximately 275 sx Tune Light cement with additives, mixed at 11.0 ppg (yield = 3.14 ft <sup>3</sup> /sx). TOC @ 1,200' Tail with approximately 140 sx Halliburton Econocem cement with additives mixed at 13.5 ppg (yield = 1.42 ft <sup>3</sup> /sx). TOC @ 4,347'
4 1/2" Liner with 4-1/2" Tieback to surface	The liner will either be cemented with 300 sx 13.5 ppg Econocem from TD to the TOL or uncemented with 14-16 open hole packers.
Note: Top of Tail cement for the intermediate string will be calculated to 1000' above the KOP using gauge hole plus 50% excess. Lead to 200' inside of surface casing.	

## 6. Mud Program

<u>Interval</u>	<u>Weight</u>	<u>Viscosity</u>	<u>Fluid Loss (API filtrate)</u>	<u>Remarks</u>
40' – 1,700'	8.4 – 8.8	26 – 36	NC	Freshwater Spud Mud Fluid System
1,700' – 6,229'	8.9 – 9.2	26 - 36	NC	Fresh Water with sweeps
6,229' – TD	9.0 – 9.5	45 – 58	4 – 10	Fresh Water PHPA
Note: Sufficient mud materials to maintain mud properties, control lost circulation and to contain "kicks" will be available at wellsite. BBC may require minor amounts of diesel to be added to its fluid system in order to reduce torque and drag.				

## 7. BOP and Pressure Containment Data

<u>Depth Intervals</u>	<u>BOP Equipment</u>
0 – 1,700'	No pressure control required
1,700' – TD	11" 5000# Ram Type BOP 11" 5000# Annular BOP
- Drilling spool to accommodate choke and kill lines;	
- Ancillary and choke manifold to be rated @ 5000 psi;	
- Ancillary equipment and choke manifold rated at 5,000#. All BOP and BOPE tests will be in accordance with the requirements of onshore Order No. 2;	
- The BLM and the State of Utah Division of Oil, Gas and Mining will be notified 24 hours in advance of all BOP pressure tests.	
- BOP hand wheels may be underneath the sub-structure of the rig if the drilling rig used is set up to operate most efficiently in this manner.	

Drilling Plan  
LC Tribal 1H-21-46  
Duchesne Co., UT

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**8. Auxiliary Equipment**

- a) Upper kelly cock; lower Kelly cock will be installed while drilling
- b) Inside BOP or stab-in valve (available on rig floor)
- c) Safety valve(s) and subs to fit all string connections in use
- d) Mud monitoring will be visually observed

**9. Testing, Logging and Core Programs**

Cores	None anticipated;
Testing	None anticipated; drill stem tests may be run on shows of interest;
Sampling	30' to 50' samples; surface casing to TD. Preserve samples all show intervals;
Surveys	MWD with GR as needed to land wellbore;
WL Logging	None in intermediate
Note: FMI and CAL may be run on the lateral portion of the horizontal wellbore at the geologist's discretion.	

**10. Anticipated Abnormal Pressures or Temperatures**

No abnormal pressures or temperatures or other hazards are anticipated.

Maximum anticipated bottom hole pressure equals approximately 2968 psi\* and maximum anticipated surface pressure equals approximately 1646 psi\*\* (bottom hole pressure minus the pressure of a partially evacuated hole calculated at 0.22 psi/foot).

\*Max Mud Wt x 0.052 x TD = A (bottom hole pressure)

\*\*Maximum surface pressure = A – (0.22 x TD)

**11. Location and Type of Water Supply**

Water for the drilling and completion will be trucked from the Duchesne City Culinary Water Dock located in Sec. 1, T4S, R5W.

**12. Drilling Schedule**

Location Construction: November 2012  
Spud: November 2012  
Duration: 25 days drilling time  
25 days completion time



Bill Barrett Corporation

**SITE DETAILS:** 1H-21-46 LC Tribal  
Lake Canyon

 Site Latitude: 40° 7' 17.890 N  
 Site Longitude: 110° 34' 19.420 W
**COMPANY DETAILS:** BILL BARRETT CORP
 Calculation Method: Minimum Curvature  
 Error System: ISCWSA  
 Scan Method: Closest Approach 3D  
 Error Surface: Elliptical Conic  
 Warning Method: Error Ratio

 Positional Uncertainty: 0.0  
 Convergence: 0.59  
 Local North: True
**WELL DETAILS:** 1H-21-46 LC Tribal

Ground Level: 7100.0

+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Slot
0.0	0.0	652697.18	2259491.48	40° 7' 17.890 N	110° 34' 19.420 W	

**WELLBORE TARGET DETAILS (LAT/LONG)**

Name	TVD	+N/-S	+E/-W	Latitude	Longitude	Shape
1H-21-46 LC Tribal PBHL6010.0		765.1	3184.8	40° 7' 25.450 N	110° 33' 38.419 W	Rectangle (Sides: L200.0 W200.0)

**SECTION DETAILS**

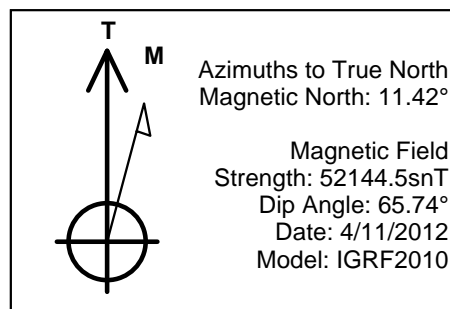
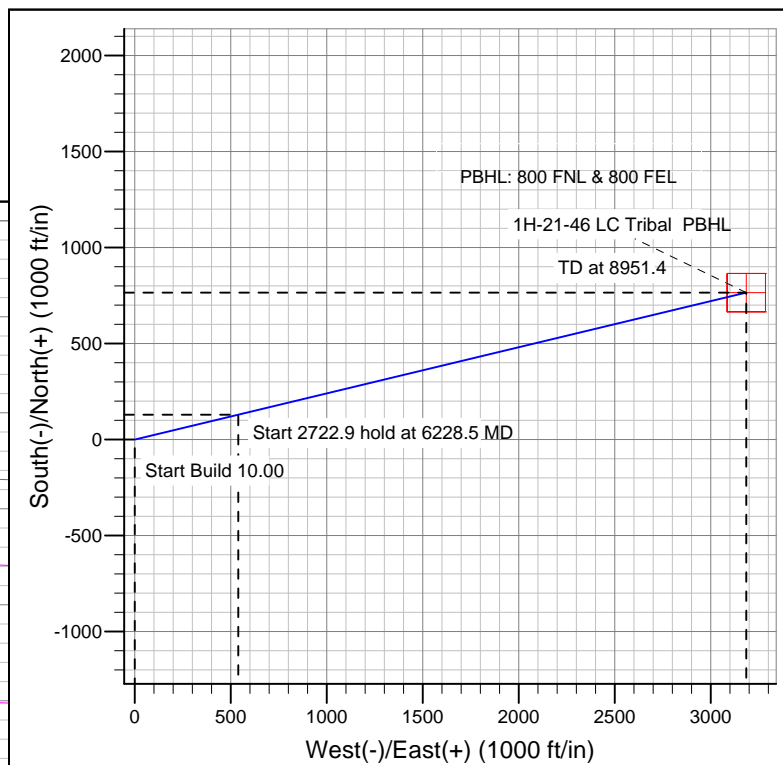
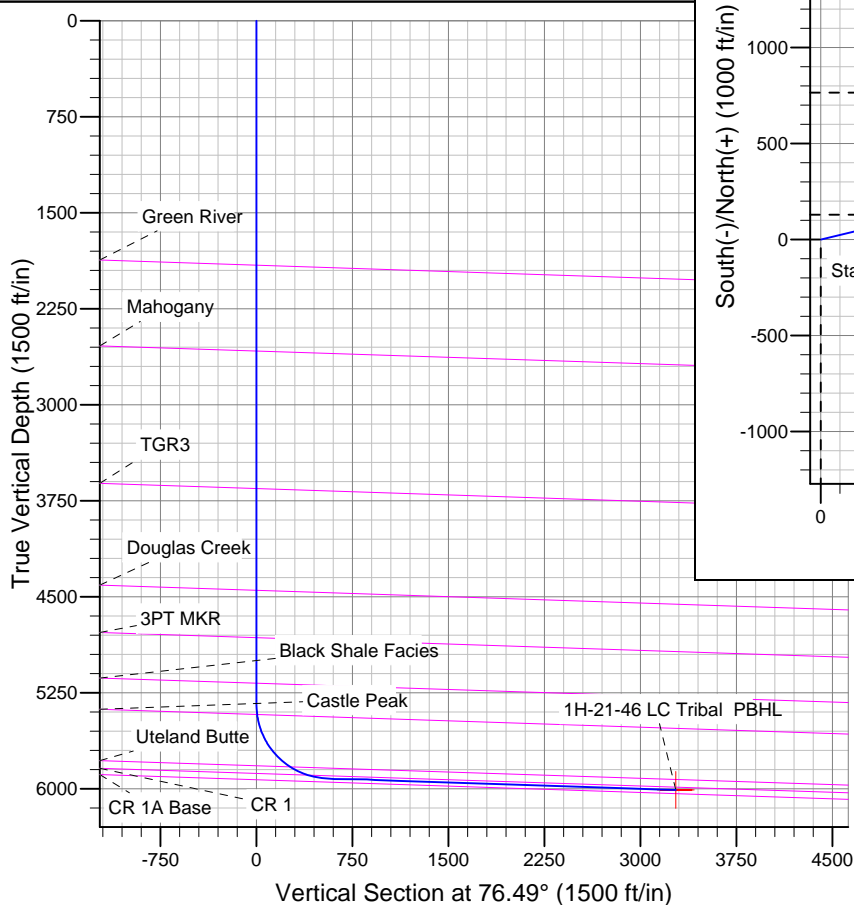
Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	DLeg	TFace	VSec	Target
1	0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0	
2	5347.4	0.00	0.00	5347.4	0.0	0.0	0.00	0.00	0.0	
3	6228.5	88.11	76.49	5920.0	129.4	538.7	10.00	76.49	554.0	
4	8951.4	88.11	76.49	6010.0	765.1	3184.8	0.00	0.00	3275.4	
5	8951.4	0.00	0.00	6010.0	765.1	3184.8	0.00	180.00	3275.4	1H-21-46 LC Tribal PBHL

**FORMATION TOP DETAILS**

TVDPath	MDPath	Formation
1910.0	1910.0	CR 1A Base
2580.0	2580.0	Green River
3655.0	3655.0	Mahogany
4450.0	4450.0	TGR3
4820.0	4820.0	Douglas Creek
5175.0	5175.0	3PT MKR
5420.2	5420.3	Black Shale Facies
5828.6	5918.7	Castle Peak
5893.1	6070.1	Uteland Butte
		CR 1

**CASING DETAILS**

No casing data is available



# **BILL BARRETT CORP**

**DUCHESNE COUNTY, UT (NAD 27)**

**1H-21-46 LC Tribal**

**1H-21-46 LC Tribal**

**1H-21-46 LC Tribal**

**Plan: Design #1**

## **Standard Planning Report**

**11 April, 2012**



**Bill Barrett Corp**

## Planning Report

<b>Database:</b>	Compass	<b>Local Co-ordinate Reference:</b>	Well 1H-21-46 LC Tribal
<b>Company:</b>	BILL BARRETT CORP	<b>TVD Reference:</b>	KB @ 7116.0ft (Original Well Elev)
<b>Project:</b>	DUCHESNE COUNTY, UT (NAD 27)	<b>MD Reference:</b>	KB @ 7116.0ft (Original Well Elev)
<b>Site:</b>	1H-21-46 LC Tribal	<b>North Reference:</b>	True
<b>Well:</b>	1H-21-46 LC Tribal	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	1H-21-46 LC Tribal		
<b>Design:</b>	Design #1		

<b>Project</b>	DUCHESNE COUNTY, UT (NAD 27)		
<b>Map System:</b>	US State Plane 1927 (Exact solution)	<b>System Datum:</b>	Ground Level
<b>Geo Datum:</b>	NAD 1927 (NADCON CONUS)		
<b>Map Zone:</b>	Utah Central 4302		

Site	1H-21-46 LC Tribal				
Site Position:		Northing:	652,697.19 ft	Latitude:	40° 7' 17.890 N
From:	Lat/Long	Easting:	2,259,491.48 ft	Longitude:	110° 34' 19.420 W
Position Uncertainty:	0.0 ft	Slot Radius:	"	Grid Convergence:	0.59 °

Well	1H-21-46 LC Tribal					
Well Position	+N/-S	0.0 ft	Northing:	652,697.18 ft	Latitude:	40° 7' 17.890 N
	+E/-W	0.0 ft	Easting:	2,259,491.48 ft	Longitude:	110° 34' 19.420 W
Position Uncertainty		0.0 ft	Wellhead Elevation:	ft	Ground Level:	7,100.0 ft

<b>Wellbore</b>	1H-21-46 LC Tribal				
<b>Magnetics</b>	<b>Model Name</b>	<b>Sample Date</b>	<b>Declination (°)</b>	<b>Dip Angle (°)</b>	<b>Field Strength (nT)</b>
	IGRF2010	4/11/2012	11.42	65.74	52,144

<b>Design</b>	Design #1			
<b>Audit Notes:</b>				
<b>Version:</b>	<b>Phase:</b>	PLAN	<b>Tie On Depth:</b>	0.0
<b>Vertical Section:</b>	<b>Depth From (TVD)</b>	<b>+N/-S</b>	<b>+E/-W</b>	<b>Direction</b>
	(ft)	(ft)	(ft)	(°)
	0.0	0.0	0.0	76.49

<b>Plan Sections</b>										
<b>Measured Depth</b>	<b>Inclination</b>	<b>Azimuth</b>	<b>Vertical Depth</b>	<b>+N/-S</b>	<b>+E/-W</b>	<b>Dogleg Rate</b>	<b>Build Rate</b>	<b>Turn Rate</b>	<b>TFO</b>	<b>Target</b>
(ft)	(°)	(°)	(ft)	(ft)	(ft)	(°/100ft)	(°/100ft)	(°/100ft)	(°)	
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.00	0.00	
5,347.4	0.00	0.00	5,347.4	0.0	0.0	0.00	0.00	0.00	0.00	
6,228.5	88.11	76.49	5,920.0	129.4	538.7	10.00	10.00	0.00	76.49	
8,951.4	88.11	76.49	6,010.0	765.1	3,184.8	0.00	0.00	0.00	0.00	
8,951.4	0.00	0.00	6,010.0	765.1	3,184.8	0.00	0.00	0.00	180.00	1H-21-46 LC Tribal P

**Bill Barrett Corp**

## Planning Report

<b>Database:</b>	Compass	<b>Local Co-ordinate Reference:</b>	Well 1H-21-46 LC Tribal
<b>Company:</b>	BILL BARRETT CORP	<b>TVD Reference:</b>	KB @ 7116.0ft (Original Well Elev)
<b>Project:</b>	DUCHESNE COUNTY, UT (NAD 27)	<b>MD Reference:</b>	KB @ 7116.0ft (Original Well Elev)
<b>Site:</b>	1H-21-46 LC Tribal	<b>North Reference:</b>	True
<b>Well:</b>	1H-21-46 LC Tribal	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	1H-21-46 LC Tribal		
<b>Design:</b>	Design #1		

Planned Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.00	0.00	0.00
100.0	0.00	0.00	100.0	0.0	0.0	0.0	0.00	0.00	0.00
200.0	0.00	0.00	200.0	0.0	0.0	0.0	0.00	0.00	0.00
300.0	0.00	0.00	300.0	0.0	0.0	0.0	0.00	0.00	0.00
400.0	0.00	0.00	400.0	0.0	0.0	0.0	0.00	0.00	0.00
500.0	0.00	0.00	500.0	0.0	0.0	0.0	0.00	0.00	0.00
600.0	0.00	0.00	600.0	0.0	0.0	0.0	0.00	0.00	0.00
700.0	0.00	0.00	700.0	0.0	0.0	0.0	0.00	0.00	0.00
800.0	0.00	0.00	800.0	0.0	0.0	0.0	0.00	0.00	0.00
900.0	0.00	0.00	900.0	0.0	0.0	0.0	0.00	0.00	0.00
1,000.0	0.00	0.00	1,000.0	0.0	0.0	0.0	0.00	0.00	0.00
1,100.0	0.00	0.00	1,100.0	0.0	0.0	0.0	0.00	0.00	0.00
1,200.0	0.00	0.00	1,200.0	0.0	0.0	0.0	0.00	0.00	0.00
1,300.0	0.00	0.00	1,300.0	0.0	0.0	0.0	0.00	0.00	0.00
1,400.0	0.00	0.00	1,400.0	0.0	0.0	0.0	0.00	0.00	0.00
1,500.0	0.00	0.00	1,500.0	0.0	0.0	0.0	0.00	0.00	0.00
1,600.0	0.00	0.00	1,600.0	0.0	0.0	0.0	0.00	0.00	0.00
1,700.0	0.00	0.00	1,700.0	0.0	0.0	0.0	0.00	0.00	0.00
1,800.0	0.00	0.00	1,800.0	0.0	0.0	0.0	0.00	0.00	0.00
1,900.0	0.00	0.00	1,900.0	0.0	0.0	0.0	0.00	0.00	0.00
1,910.0	0.00	0.00	1,910.0	0.0	0.0	0.0	0.00	0.00	0.00
<b>Green River</b>									
2,000.0	0.00	0.00	2,000.0	0.0	0.0	0.0	0.00	0.00	0.00
2,100.0	0.00	0.00	2,100.0	0.0	0.0	0.0	0.00	0.00	0.00
2,200.0	0.00	0.00	2,200.0	0.0	0.0	0.0	0.00	0.00	0.00
2,300.0	0.00	0.00	2,300.0	0.0	0.0	0.0	0.00	0.00	0.00
2,400.0	0.00	0.00	2,400.0	0.0	0.0	0.0	0.00	0.00	0.00
2,500.0	0.00	0.00	2,500.0	0.0	0.0	0.0	0.00	0.00	0.00
2,580.0	0.00	0.00	2,580.0	0.0	0.0	0.0	0.00	0.00	0.00
<b>Mahogany</b>									
2,600.0	0.00	0.00	2,600.0	0.0	0.0	0.0	0.00	0.00	0.00
2,700.0	0.00	0.00	2,700.0	0.0	0.0	0.0	0.00	0.00	0.00
2,800.0	0.00	0.00	2,800.0	0.0	0.0	0.0	0.00	0.00	0.00
2,900.0	0.00	0.00	2,900.0	0.0	0.0	0.0	0.00	0.00	0.00
3,000.0	0.00	0.00	3,000.0	0.0	0.0	0.0	0.00	0.00	0.00
3,100.0	0.00	0.00	3,100.0	0.0	0.0	0.0	0.00	0.00	0.00
3,200.0	0.00	0.00	3,200.0	0.0	0.0	0.0	0.00	0.00	0.00
3,300.0	0.00	0.00	3,300.0	0.0	0.0	0.0	0.00	0.00	0.00
3,400.0	0.00	0.00	3,400.0	0.0	0.0	0.0	0.00	0.00	0.00
3,500.0	0.00	0.00	3,500.0	0.0	0.0	0.0	0.00	0.00	0.00
3,600.0	0.00	0.00	3,600.0	0.0	0.0	0.0	0.00	0.00	0.00
3,655.0	0.00	0.00	3,655.0	0.0	0.0	0.0	0.00	0.00	0.00
<b>TGR3</b>									
3,700.0	0.00	0.00	3,700.0	0.0	0.0	0.0	0.00	0.00	0.00
3,800.0	0.00	0.00	3,800.0	0.0	0.0	0.0	0.00	0.00	0.00
3,900.0	0.00	0.00	3,900.0	0.0	0.0	0.0	0.00	0.00	0.00
4,000.0	0.00	0.00	4,000.0	0.0	0.0	0.0	0.00	0.00	0.00
4,100.0	0.00	0.00	4,100.0	0.0	0.0	0.0	0.00	0.00	0.00
4,200.0	0.00	0.00	4,200.0	0.0	0.0	0.0	0.00	0.00	0.00
4,300.0	0.00	0.00	4,300.0	0.0	0.0	0.0	0.00	0.00	0.00
4,400.0	0.00	0.00	4,400.0	0.0	0.0	0.0	0.00	0.00	0.00
4,450.0	0.00	0.00	4,450.0	0.0	0.0	0.0	0.00	0.00	0.00
<b>Douglas Creek</b>									
4,500.0	0.00	0.00	4,500.0	0.0	0.0	0.0	0.00	0.00	0.00

**Bill Barrett Corp**

## Planning Report

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<b>Company:</b>	BILL BARRETT CORP	<b>TVD Reference:</b>	KB @ 7116.0ft (Original Well Elev)
<b>Project:</b>	DUCHESNE COUNTY, UT (NAD 27)	<b>MD Reference:</b>	KB @ 7116.0ft (Original Well Elev)
<b>Site:</b>	1H-21-46 LC Tribal	<b>North Reference:</b>	True
<b>Well:</b>	1H-21-46 LC Tribal	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	1H-21-46 LC Tribal		
<b>Design:</b>	Design #1		

Planned Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
4,600.0	0.00	0.00	4,600.0	0.0	0.0	0.0	0.00	0.00	0.00
4,700.0	0.00	0.00	4,700.0	0.0	0.0	0.0	0.00	0.00	0.00
4,800.0	0.00	0.00	4,800.0	0.0	0.0	0.0	0.00	0.00	0.00
4,820.0	0.00	0.00	4,820.0	0.0	0.0	0.0	0.00	0.00	0.00
<b>3PT MKR</b>									
4,900.0	0.00	0.00	4,900.0	0.0	0.0	0.0	0.00	0.00	0.00
5,000.0	0.00	0.00	5,000.0	0.0	0.0	0.0	0.00	0.00	0.00
5,100.0	0.00	0.00	5,100.0	0.0	0.0	0.0	0.00	0.00	0.00
5,175.0	0.00	0.00	5,175.0	0.0	0.0	0.0	0.00	0.00	0.00
<b>Black Shale Facies</b>									
5,200.0	0.00	0.00	5,200.0	0.0	0.0	0.0	0.00	0.00	0.00
5,300.0	0.00	0.00	5,300.0	0.0	0.0	0.0	0.00	0.00	0.00
5,347.4	0.00	0.00	5,347.4	0.0	0.0	0.0	0.00	0.00	0.00
5,400.0	5.26	76.49	5,399.9	0.6	2.3	2.4	10.00	10.00	0.00
5,420.3	7.29	76.49	5,420.2	1.1	4.5	4.6	10.00	10.00	0.00
<b>Castle Peak</b>									
5,500.0	15.26	76.49	5,498.2	4.7	19.6	20.2	10.00	10.00	0.00
5,600.0	25.26	76.49	5,591.9	12.8	53.3	54.8	10.00	10.00	0.00
5,700.0	35.26	76.49	5,678.2	24.6	102.2	105.1	10.00	10.00	0.00
5,800.0	45.26	76.49	5,754.4	39.6	165.0	169.7	10.00	10.00	0.00
5,900.0	55.26	76.49	5,818.2	57.6	239.6	246.5	10.00	10.00	0.00
5,918.7	57.13	76.49	5,828.6	61.2	254.8	262.0	10.00	10.00	0.00
<b>Uteland Butte</b>									
6,000.0	65.26	76.49	5,867.8	77.8	324.0	333.2	10.00	10.00	0.00
6,070.1	72.27	76.49	5,893.1	93.1	387.5	398.5	10.00	10.00	0.00
<b>CR 1</b>									
6,100.0	75.26	76.49	5,901.5	99.8	415.4	427.2	10.00	10.00	0.00
6,200.0	85.26	76.49	5,918.4	122.8	511.1	525.6	10.00	10.00	0.00
6,228.5	88.11	76.49	5,920.0	129.4	538.7	554.0	10.00	10.00	0.00
6,300.0	88.11	76.49	5,922.4	146.1	608.2	625.5	0.00	0.00	0.00
6,400.0	88.11	76.49	5,925.7	169.5	705.4	725.5	0.00	0.00	0.00
6,500.0	88.11	76.49	5,929.0	192.8	802.6	825.4	0.00	0.00	0.00
6,600.0	88.11	76.49	5,932.3	216.2	899.8	925.4	0.00	0.00	0.00
6,700.0	88.11	76.49	5,935.6	239.5	996.9	1,025.3	0.00	0.00	0.00
6,800.0	88.11	76.49	5,938.9	262.9	1,094.1	1,125.2	0.00	0.00	0.00
6,900.0	88.11	76.49	5,942.2	286.2	1,191.3	1,225.2	0.00	0.00	0.00
7,000.0	88.11	76.49	5,945.5	309.6	1,288.5	1,325.1	0.00	0.00	0.00
7,100.0	88.11	76.49	5,948.8	332.9	1,385.7	1,425.1	0.00	0.00	0.00
7,200.0	88.11	76.49	5,952.1	356.2	1,482.8	1,525.0	0.00	0.00	0.00
7,300.0	88.11	76.49	5,955.4	379.6	1,580.0	1,625.0	0.00	0.00	0.00
7,400.0	88.11	76.49	5,958.7	402.9	1,677.2	1,724.9	0.00	0.00	0.00
7,500.0	88.11	76.49	5,962.1	426.3	1,774.4	1,824.9	0.00	0.00	0.00
7,600.0	88.11	76.49	5,965.4	449.6	1,871.6	1,924.8	0.00	0.00	0.00
7,700.0	88.11	76.49	5,968.7	473.0	1,968.7	2,024.8	0.00	0.00	0.00
7,800.0	88.11	76.49	5,972.0	496.3	2,065.9	2,124.7	0.00	0.00	0.00
7,900.0	88.11	76.49	5,975.3	519.7	2,163.1	2,224.6	0.00	0.00	0.00
8,000.0	88.11	76.49	5,978.6	543.0	2,260.3	2,324.6	0.00	0.00	0.00
8,100.0	88.11	76.49	5,981.9	566.4	2,357.5	2,424.5	0.00	0.00	0.00
8,200.0	88.11	76.49	5,985.2	589.7	2,454.6	2,524.5	0.00	0.00	0.00
8,300.0	88.11	76.49	5,988.5	613.1	2,551.8	2,624.4	0.00	0.00	0.00
8,400.0	88.11	76.49	5,991.8	636.4	2,649.0	2,724.4	0.00	0.00	0.00
8,500.0	88.11	76.49	5,995.1	659.8	2,746.2	2,824.3	0.00	0.00	0.00
8,600.0	88.11	76.49	5,998.4	683.1	2,843.4	2,924.3	0.00	0.00	0.00

**Bill Barrett Corp**

## Planning Report

<b>Database:</b>	Compass	<b>Local Co-ordinate Reference:</b>	Well 1H-21-46 LC Tribal
<b>Company:</b>	BILL BARRETT CORP	<b>TVD Reference:</b>	KB @ 7116.0ft (Original Well Elev)
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<b>Site:</b>	1H-21-46 LC Tribal	<b>North Reference:</b>	True
<b>Well:</b>	1H-21-46 LC Tribal	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	1H-21-46 LC Tribal		
<b>Design:</b>	Design #1		

Planned Survey										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	
8,700.0	88.11	76.49	6,001.7	706.5	2,940.5	3,024.2	0.00	0.00	0.00	
8,800.0	88.11	76.49	6,005.0	729.8	3,037.7	3,124.2	0.00	0.00	0.00	
8,900.0	88.11	76.49	6,008.3	753.2	3,134.9	3,224.1	0.00	0.00	0.00	
8,951.4	0.00	0.00	6,010.0	765.1	3,184.8	3,275.4	171.52	-171.52	0.00	

Formations						
Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)	
1,910.0	1,910.0	Green River		1.89	76.49	
2,580.0	2,580.0	Mahogany		1.89	76.49	
3,655.0	3,655.0	TGR3		1.89	76.49	
4,450.0	4,450.0	Douglas Creek		1.89	76.49	
4,820.0	4,820.0	3PT MKR		1.89	76.49	
5,175.0	5,175.0	Black Shale Facies		1.89	76.49	
5,420.3	5,420.0	Castle Peak		1.89	76.49	
5,918.7	5,820.0	Uteland Butte		1.89	76.49	
6,070.1	5,880.0	CR 1		1.89	76.49	
	5,930.0	CR 1A Base		1.89	76.49	



May 14, 2012

Ms. Diana Mason, Petroleum Technician  
State of Utah Division of Oil, Gas and Mining  
1594 West North Temple, Suite 1210  
P. O. Box 145801  
Salt Lake City, Utah 84114-5801

**RE: Horizontal Drilling  
LC Tribal # 1H-21-46  
Section 21, T4S-R6W, U.S.B.&M.  
Duchesne County, Utah**

**Surface Hole Location: 1520' FNL & 1199' FWL, SWNW, 21-T4S-R6W, USB&M  
Bottom Hole Location: 800' FNL & 800' FEL, NENE, 21-T4S-R6W, USB&M**

Dear Ms. Mason:

Pursuant to the filing of Bill Barrett Corporation's ("BBC") Application for Permit to Drill ("APD") regarding the above-referenced well, we are hereby submitting this letter in accordance with Oil & Gas Conservation Order 139-87 pertaining to a 640 acre spacing unit for a horizontal or vertical well.

- Tribal Exploration and Development Agreement #14-20-H62-5500, which includes all of the subject Section 21 and other lands, allows for the drilling of the #1H-21-46 well.
- BBC has drilled the 7-21-46 DLB Well and earned BIA Lease #14-20-H62-6108 covering 640 acres being further described in the Exploration and Development Agreement.
- The LC Tribal #1H-21-46 will be perforated no less than 660 feet from the Section 21 Tribal Lease boundary, in accordance with UDOGM Order #139-87.

Based on the information provided, BBC requests that the permit be granted pursuant to Order #139-87. If you should have any questions or need further information, please contact me at 303-312-8544.

Sincerely,

BILL BARRETT CORPORATION

David Watts  
Landman

1099 18<sup>TH</sup> STREET  
SUITE 2300  
DENVER, CO 80202  
P 303.293.9100  
F 303.291.0420



## EXCEPTION CHECKLIST FOR BIA CATEGORICAL EXCLUSIONS

Date: May 2, 2012

Project: Modify the 5-21-46 DLB well pad to be the LC Tribal 1H-21-46 / 8H-21-46 (2 Well Bores)

**Nature of Proposed Action:** Bill Barrett Corporation (BBC) proposes to change the originally granted 5-21-46 DLB well bore, which was a proposal and approval for one well bore, to be the LC Tribal 1H-21-46 well bore, and to include an additional well bore named the LC Tribal 8H-21-46 to be drilled off of the same well pad, equaling two well bores on a single pad. The well pad and right-of-way name would be modified to be LC Tribal 1H-21-46 / 8H-21-46. The well pad is approximately 3.019 acres, access road being approximately 3.814 acres, and pipeline being approximately 3.778 acres, all more or less, and is located on Ute Indian Tribe lands within the Uintah and Ouray Indian Reservation, more specifically described as being in Sections 21 and 28, Township 4 South, Range 6 West, Uintah Special Base and Meridian.

### Conditions of Approval:

- No excess surface damage is authorized;
- All original conditions of approval pertaining to Right-of-Way Grant of Easement No. H62-2007-210 and H62-2007-211 applies to this modification.

**Original NEPA Document:** 5-21-46 DLB Environmental Assessment (for H62-2007-210 and 211), both dated June 21, 2007.

**Exclusion category and number:** 516 DM 10.5.F.1 – Rights-of-Way inside another right-of-way, or amendments to rights-of-way where no deviations from or additions to the original right-of-way are involved and where there is an existing NEPA analysis covering the same or similar impacts in the right-of-way area.

### Evaluation of Exception to use of Categorical Exclusion

- |   |  |                              |
|---|--|------------------------------|
| 1. This action would have significant adverse effects on public health or safety.   | No <input checked="" type="checkbox"/> | Yes <input type="checkbox"/> |
| 2. This action would have an adverse effect on unique geographical features, such as wetland, wild or scenic rivers, refuges, floodplains, rivers placed on nationwide river inventory, or prime or unique farmlands. | No <input checked="" type="checkbox"/> | Yes <input type="checkbox"/> |
| 3. The action will have highly controversial environmental effects.   | No <input checked="" type="checkbox"/> | Yes <input type="checkbox"/> |
| 4. The action will have highly uncertain environmental effects or involve unique or unknown environmental risks.  | No <input checked="" type="checkbox"/> | Yes <input type="checkbox"/> |
| 5. This action will establish a precedent for future actions.   | No <input checked="" type="checkbox"/> | Yes <input type="checkbox"/> |
| 6. This action is related to other actions with individually insignificant, but cumulatively significant environmental effects.   | No <input checked="" type="checkbox"/> | Yes <input type="checkbox"/> |
| 7. This action will affect properties listed or eligible for listing in   | No <input checked="" type="checkbox"/> | Yes <input type="checkbox"/> |



U&amp;O NEPA No.: U&amp;O-FY12-Q3-082

the National Register of Historic Places.

8. This action will affect a species listed, or proposed to be listed as endangered or threatened. No ☒ Yes ☐
9. This action threatens to violate federal, state, local, or tribal law or requirements imposed for protection of the environment. No ☒ Yes ☐
10. This action will have a disproportionately high and adverse effect on low income or minority populations. No ☒ Yes ☐
11. This action will limit access to, and ceremonial use of Indian ~~sacred sites on federal lands by Indian religious practitioners, or~~ significantly adversely affect the physical integrity of such sacred sites. No ☒ Yes ☐
12. This action will contribute to the introduction, continued existence, or spread of noxious weeds or non-native invasive species known to occur in the area, or may promote the introduction growth, or expansion of the range of such species. No ☒ Yes ☐

A "yes" to any of the above exceptions will require that an EA be prepared.

NEPA Action --- CE ☒ EA ☐Preparer's Name and Title: Bucky Secakuku, U&O Environmental Protection Specialist

Regional Archeologist Concurrence with Item 7

Concur:

U&O Superintendent

Date:

MAY 02 2012

Concur:

Bucky Secakuku, U&O Env. Protection Specialist

Date:

5/2/2012

<b>STATE OF UTAH</b> DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		FORM 9
<b>SUNDRY NOTICES AND REPORTS ON WELLS</b>  Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.		<b>5. LEASE DESIGNATION AND SERIAL NUMBER:</b> 14-20-H62-6108
		<b>6. IF INDIAN, ALLOTTEE OR TRIBE NAME:</b> UTE
<b>1. TYPE OF WELL</b> Gas Well		<b>7. UNIT or CA AGREEMENT NAME:</b>
<b>2. NAME OF OPERATOR:</b> BILL BARRETT CORP		<b>8. WELL NAME and NUMBER:</b> LC TRIBAL 5-21D-46
<b>3. ADDRESS OF OPERATOR:</b> 1099 18th Street Ste 2300 , Denver, CO, 80202	<b>PHONE NUMBER:</b> 303 312-8164 Ext	<b>9. API NUMBER:</b> 43013336580000
<b>4. LOCATION OF WELL</b> <b>FOOTAGES AT SURFACE:</b> 1520 FNL 1199 FWL <b>QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:</b> Qtr/Qtr: SWNW Section: 21 Township: 04.0S Range: 06.0W Meridian: U		<b>9. FIELD and POOL or WILDCAT:</b> ALTAMONT
		<b>COUNTY:</b> DUCHESNE
		<b>STATE:</b> UTAH

11.

CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION		
<input checked="" type="checkbox"/> <b>NOTICE OF INTENT</b> Approximate date work will start: <b>1/15/2013</b>	<input type="checkbox"/> ACIDIZE <input checked="" type="checkbox"/> CHANGE TO PREVIOUS PLANS <input type="checkbox"/> CHANGE WELL STATUS <input type="checkbox"/> DEEPEN <input type="checkbox"/> OPERATOR CHANGE <input type="checkbox"/> PRODUCTION START OR RESUME <input type="checkbox"/> REPERFORATE CURRENT FORMATION <input type="checkbox"/> TUBING REPAIR <input type="checkbox"/> WATER SHUTOFF <input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> ALTER CASING <input type="checkbox"/> CHANGE TUBING <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS <input type="checkbox"/> FRACTURE TREAT <input type="checkbox"/> PLUG AND ABANDON <input type="checkbox"/> RECLAMATION OF WELL SITE <input type="checkbox"/> SIDETRACK TO REPAIR WELL <input type="checkbox"/> VENT OR FLARE <input type="checkbox"/> SI TA STATUS EXTENSION <input type="checkbox"/> OTHER	<input type="checkbox"/> CASING REPAIR <input checked="" type="checkbox"/> CHANGE WELL NAME <input type="checkbox"/> CONVERT WELL TYPE <input type="checkbox"/> NEW CONSTRUCTION <input type="checkbox"/> PLUG BACK <input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION <input type="checkbox"/> TEMPORARY ABANDON <input type="checkbox"/> WATER DISPOSAL <input type="checkbox"/> APD EXTENSION OTHER: <input type="text"/>
<input type="checkbox"/> <b>SUBSEQUENT REPORT</b> Date of Work Completion:			
<input type="checkbox"/> <b>SPUD REPORT</b> Date of Spud:			
<input type="checkbox"/> <b>DRILLING REPORT</b> Report Date:			

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

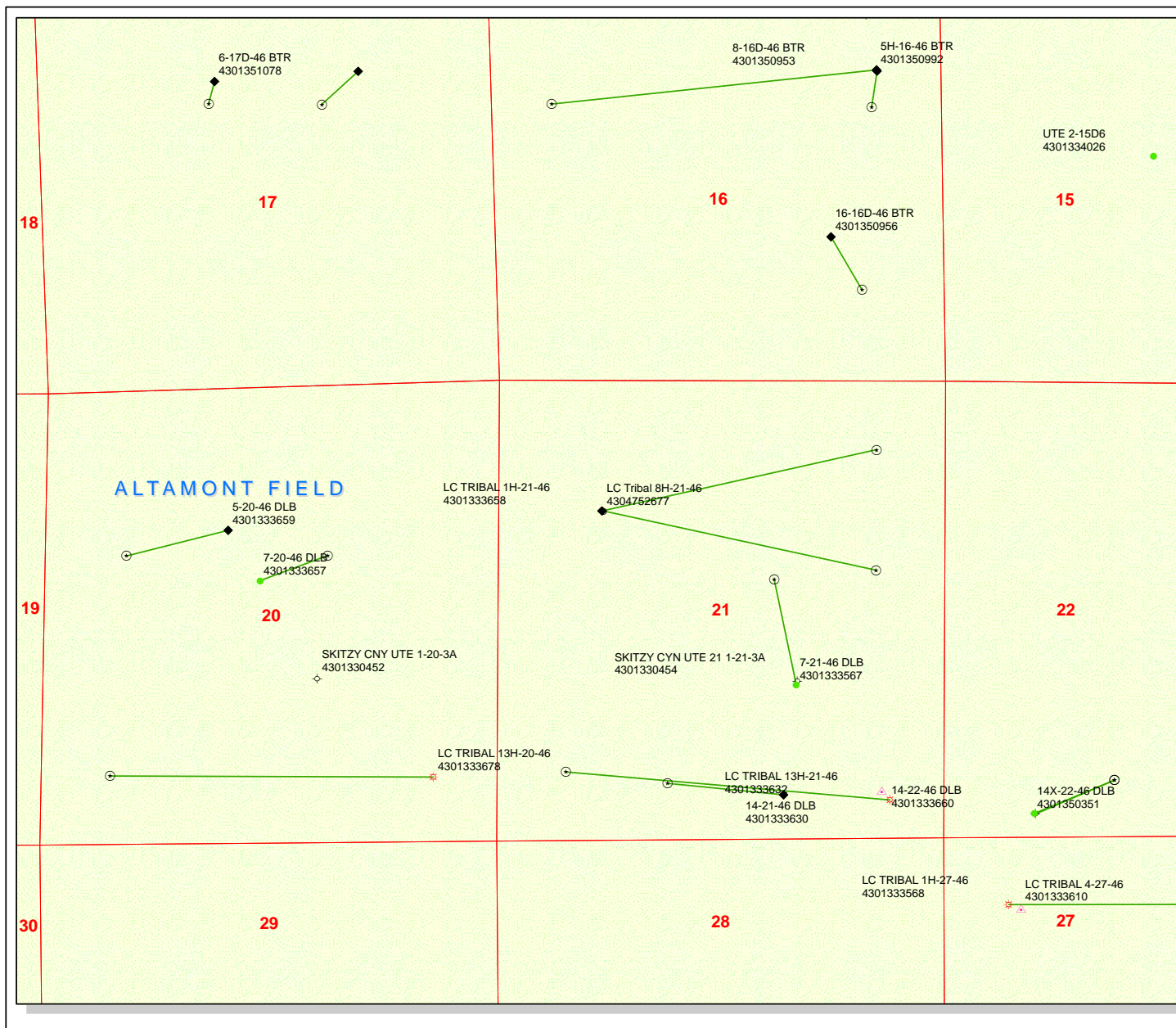
BBC hereby requests to change the bottom hole for the subject well. The surface location will remain the same. Because of this change, the well name will also be revised to LC Tribal 5-21D-46. Please see revised plat, drilling program and directional plan attached.

**Approved by the  
Utah Division of  
Oil, Gas and Mining**

**Date:** January 07, 2013

**By:** 

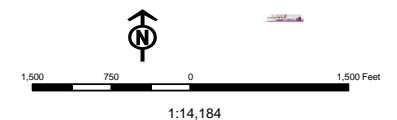
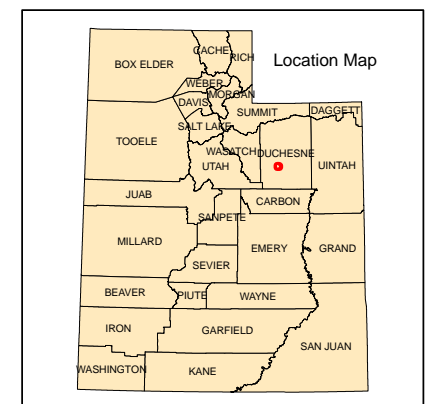
<b>NAME (PLEASE PRINT)</b> Venessa Langmacher	<b>PHONE NUMBER</b> 303 312-8172	<b>TITLE</b> Senior Permit Analyst
<b>SIGNATURE</b> N/A		<b>DATE</b> 12/27/2012



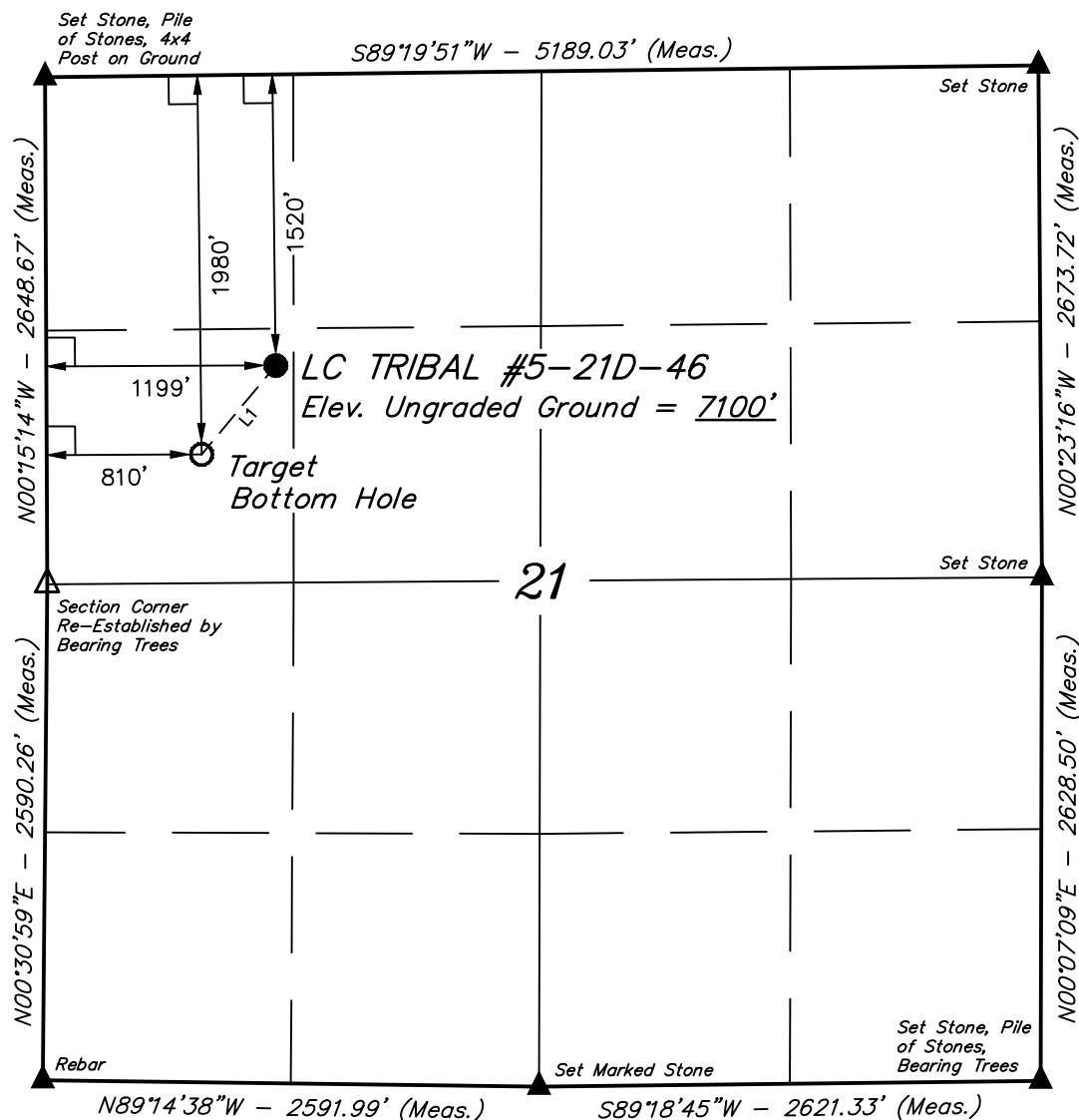
**API Number: 4301333658**  
**Well Name: LC TRIBAL 1H-21-46**  
**Township T0.4 . Range R0.6 . Section 21**  
**Meridian: UBM**  
**Operator: BILL BARRETT CORP**

Map Prepared:  
 Map Produced by Diana Mason

Units Status	Wells Query Status
ACTIVE	APD - Approved Permit
EXPLORATORY	DRL - Spudded (Drilling Commenced)
GAS STORAGE	GW - Gas Injection
NF PP OIL	GS - Gas Storage
NF SECONDARY	LA - Location Abandoned
PI OIL	LOC - New Location
PP GAS	OPS - Operation Suspended
PP GEOTHERM	PA - Plugged Abandoned
PP OIL	PGW - Producing Gas Well
SECONDARY	POW - Producing Oil Well
TERMINATED	RET - Returned APD
<b>Fields Status</b>	SGW - Shut-in Gas Well
Unknown	SOW - Shut-in Oil Well
ABANDONED	TA - Temp. Abandoned
ACTIVE	TW - Test Well
COMBINED	WDW - Water Disposal
INACTIVE	WW - Water Injection Well
STORAGE	WSW - Water Supply Well
TERMINATED	





**T4S, R6W, U.S.B.&M.****BILL BARRETT CORPORATION**

Well location, LC TRIBAL #5-21D-46, located as shown in the SW 1/4 NW 1/4 of Section 21, T4S, R6W, U.S.B.&M., Duchesne County, Utah.

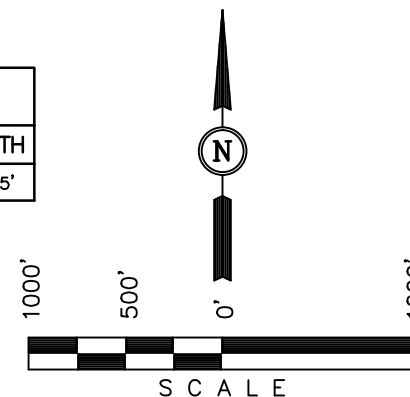
**BASIS OF ELEVATION**

BENCH MARK (M67) LOCATED IN THE SW 1/4 OF SECTION 9, T5S, R4W, U.S.B.&M., TAKEN FROM THE DUCHESNE SE, QUADRANGLE, UTAH, DUCHESNE COUNTY, 7.5 MINUTE QUAD. (TOPOGRAPHIC MAP) PUBLISHED BY THE UNITED STATES DEPARTMENT OF THE INTERIOR, GEOLOGICAL SURVEY. SAID ELEVATION IS MARKED ON CAP AS BEING 6097 FEET.

**BASIS OF BEARINGS**

BASIS OF BEARINGS IS A G.P.S. OBSERVATION.

LINE TABLE		
LINE	DIRECTION	LENGTH
L1	S39°47'53"W	604.75'

**CERTIFICATE**

THIS IS TO CERTIFY THAT THE ABOVE PLAT WAS PREPARED FROM FIELD NOTES OF ACTUAL SURVEYS MADE BY ME OR UNDER MY SUPERVISION AND THAT THE SAME ARE TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.

REVISED: 12-06-12 K.O.  
REVISED: 03-14-12 T.B.  
REVISED: 03-01-12 T.B.  
REVISED: 01-18-12 T.B.

REGISTERED LAND SURVEYOR  
REGISTRATION NO. 161319  
STATE OF UTAH

**LEGEND:**

└─┘ = 90° SYMBOL

● = PROPOSED WELL HEAD.

▲ = SECTION CORNERS LOCATED

△ = SECTION CORNERS RE-ESTABLISHED.  
(Not Set on Ground)

NAD 83 (TARGET BOTTOM HOLE)	NAD 83 (SURFACE LOCATION)
LATITUDE = 40°07'13.14" (40.120317)	LATITUDE = 40°07'17.74" (40.121594)
LONGITUDE = 110°34'26.95" (110.574153)	LONGITUDE = 110°34'21.98" (110.572772)
NAD 27 (TARGET BOTTOM HOLE)	NAD 27 (SURFACE LOCATION)
LATITUDE = 40°07'13.29" (40.120358)	LATITUDE = 40°07'17.89" (40.121636)
LONGITUDE = 110°34'24.39" (110.573442)	LONGITUDE = 110°34'19.42" (110.572061)

**UINTAH ENGINEERING & LAND SURVEYING**  
85 SOUTH 200 EAST - VERNAL, UTAH 84078  
(435) 789-1017

SCALE 1" = 1000'	DATE SURVEYED: 04-16-07	DATE DRAWN: 04-20-07
PARTY D.R. K.A. P.M.	REFERENCES G.L.O. PLAT	
WEATHER COOL	FILE BILL BARRETT CORPORATION	

RECEIVED: Dec. 27, 2012

**BILL BARRETT CORPORATION**  
**DRILLING PLAN**

**LC Tribal 5-21D-46**

SW NW, 1520' FNL and 1199' FWL, Section 21, T4S-R6W, USB&M (surface hole)

SW NW, 1980' FNL and 810' FWL, Section 21, T4S-R6W, USB&M (bottom hole)

Duchesne County, Utah

**1 - 2. Estimated Tops of Geological Markers and Formations Expected to Contain Water, Oil and Gas and Other Minerals**

<u>Formation</u>	<u>Depth – MD</u>	<u>Depth - TVD</u>
Green River	1,915'	1,915'
Mahogany	2,616'	2,610'
Lower Green River*	3,764'	3,705'
Douglas Creek	4,586'	4,510'
Black Shale	5,291'	5,215'
Castle Peak	5,541'	5,465'
Uteland Butte	5,866'	5,790'
TD	7,357'	7,280'

\*PROSPECTIVE PAY

The Wasatch and the Lower Green River are primary objectives for oil/gas.

Base of Useable Water = 3,010'

**3. BOP and Pressure Containment Data**

<u>Depth Intervals</u>	<u>BOP Equipment</u>
0 – 1,700'	No pressure control required
1,700' – TD	11" 5000# Ram Type BOP 11" 5000# Annular BOP
- Drilling spool to accommodate choke and kill lines;	
- Ancillary equipment and choke manifold rated at 5,000 psi. All BOP and BOPE tests will be in accordance with the requirements of onshore Order No. 2;	
- The BLM and the State of Utah Division of Oil, Gas and Mining will be notified 24 hours in advance of all BOP pressure tests.	
- BOP hand wheels may be underneath the sub-structure of the rig if the drilling rig used is set up To operate most efficiently in this manner.	

**4. Casing Program**

<u>Hole Size</u>	<u>SETTING DEPTH</u>		<u>Casing Size</u>	<u>Casing Weight</u>	<u>Casing Grade</u>	<u>Thread</u>	<u>Condition</u>
	<u>(FROM)</u>	<u>(TO)</u>					
26"	Surface	80'	16"	65#			
12 1/4"	Surface	1,700'	9 5/8"	36#	J or K 55	ST&C	New
8 3/4"	Surface	TD	5 1/2"	17#	P-110	LT&C	New

Bill Barrett Corporation  
Drilling Program  
LC Tribal 5-21D-46  
Duchesne County, Utah

5. **Cementing Program**

16" Conductor Casing	Grout
9 5/8" Surface Casing	Lead: 220 sx Halliburton Light Premium with additives mixed at 11.0 ppg (yield = 3.16 ft <sup>3</sup> /sx) circulated to surface with 75% excess. TOC @ Surface Tail: 210 sx Halliburton Premium Plus cement with additives mixed at 14.8 ppg (yield = 1.36 ft <sup>3</sup> /sx), calculated hole volume with 75% excess. TOC @ 1,200'
5 1/2" Production Casing	Lead: 590 sx Tuned Light cement with additives mixed at 11.0 ppg (yield = 2.31 ft <sup>3</sup> /sx). TOC @ 1,200' Tail: 690 sx Halliburton Econocem cement with additives mixed at 13.5 ppg (yield = 1.42 ft <sup>3</sup> /sx). Top of cement to be determined by log and sample evaluation; estimated TOC @ 4,791'

6. **Mud Program**

<u>Interval</u>	<u>Weight</u>	<u>Viscosity</u>	<u>Fluid Loss</u> <u>(API filtrate)</u>	<u>Remarks</u>
0' – 80'	8.3 – 8.8	26 – 36	NC	Freshwater Spud Mud Fluid System
80' – 1,700'	8.3 – 8.8	26 – 36	NC	Freshwater Spud Mud Fluid System
1,700' – TD	8.6 – 9.6	42-52	20 cc or less	DAP Polymer Fluid System
Note: Sufficient mud materials to maintain mud properties, control lost circulation and to contain "kicks" will be available at wellsite. BBC may require minor amounts of diesel to be added to its fluid system in order to reduce torque and drag.				

7. **Testing, Logging and Core Programs**

Cores	None anticipated;
Testing	None anticipated; drill stem tests may be run on shows of interest;
Sampling	30' to 50' samples; surface casing to TD. Preserve samples all show intervals;
Surveys	MWD as needed to land wellbore;
Logging	DIL-GR-SP, FDC-CNL-GR-CALIPER-Pe-Microlog, Sonic-GR (all TD to surface). FMI & Sonic Scanner to be run at geologist's discretion.

8. **Anticipated Abnormal Pressures or Temperatures**

No abnormal pressures or temperatures or other hazards are anticipated.

Maximum anticipated bottom hole pressure equals approximately 3634 psi\* and maximum anticipated surface pressure equals approximately 2032 psi\*\* (bottom hole pressure minus the pressure of a partially evacuated hole calculated at 0.22 psi/foot).

\*Max Mud Wt x 0.052 x TD = A (bottom hole pressure)

\*\*Maximum surface pressure = A – (0.22 x TD)



Bill Barrett Corporation  
Drilling Program  
LC Tribal 5-21D-46  
Duchesne County, Utah

**9. Auxiliary Equipment**

- a) Upper kelly cock; lower Kelly cock will be installed while drilling
  - b) Inside BOP or stab-in valve (available on rig floor)
  - c) Safety valve(s) and subs to fit all string connections in use
- Mud monitoring will be visually observed

**10. Location and Type of Water Supply**

Water for the drilling and completion will be trucked from the Duchesne City Culinary Water Dock located in Sec. 1, T4S, R5W water right number 43-180.

**11. Drilling Schedule**

Location Construction: January 2013  
Spud: January 2013  
Duration: 15 days drilling time  
45 days completion time



Bill Barrett Corporation

SITE DETAILS: 5-21D-46 LC Tribal  
Lake CanyonSite Latitude: 40° 7' 17.890 N  
Site Longitude: 110° 34' 19.420 W**COMPANY DETAILS: BILL BARRETT CORP**Calculation Method: Minimum Curvature  
Error System: ISCWSA  
Scan Method: Closest Approach 3D  
Error Surface: Elliptical Conic  
Warning Method: Error RatioPositional Uncertainty: 0.0  
Convergence: 0.59  
Local North: True**WELL DETAILS: 5-21D-46 LC Tribal**

Ground Level: 7095.0

+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Slot
0.0	0.0	652697.18	2259491.48	40° 7' 17.890 N	110° 34' 19.420 W	

**WELLBORE TARGET DETAILS (LAT/LONG)**

Name	TVD	+N/-S	+E/-W	Latitude	Longitude	Shape
5-21D-46 LC Tribal 3PT MKR	4850.0	-465.5	-386.2 40° 7' 13.289 N	110° 34' 24.391 W		Rectangle (Sides: L200.0 W200.0)
5-21D-46 LC Tribal PBHL	7280.0	-465.5	-386.2 40° 7' 13.289 N	110° 34' 24.391 W		Rectangle (Sides: L200.0 W200.0)

**SECTION DETAILS**

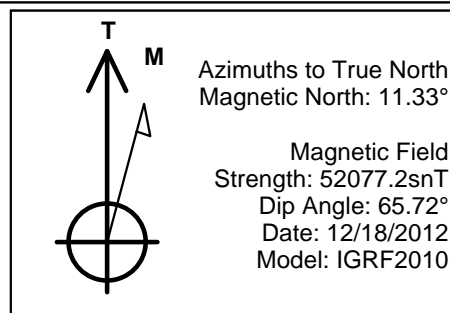
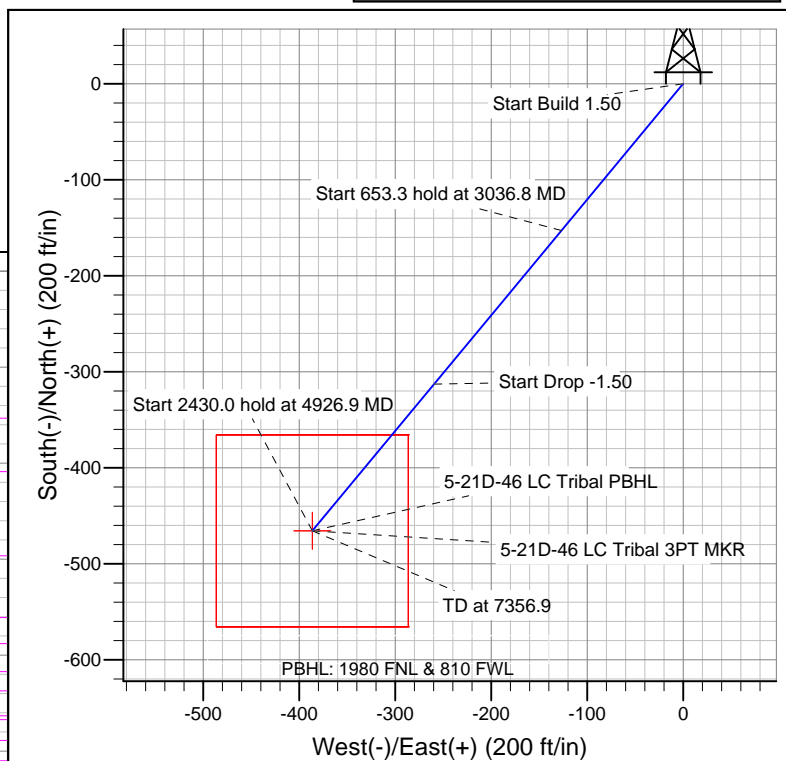
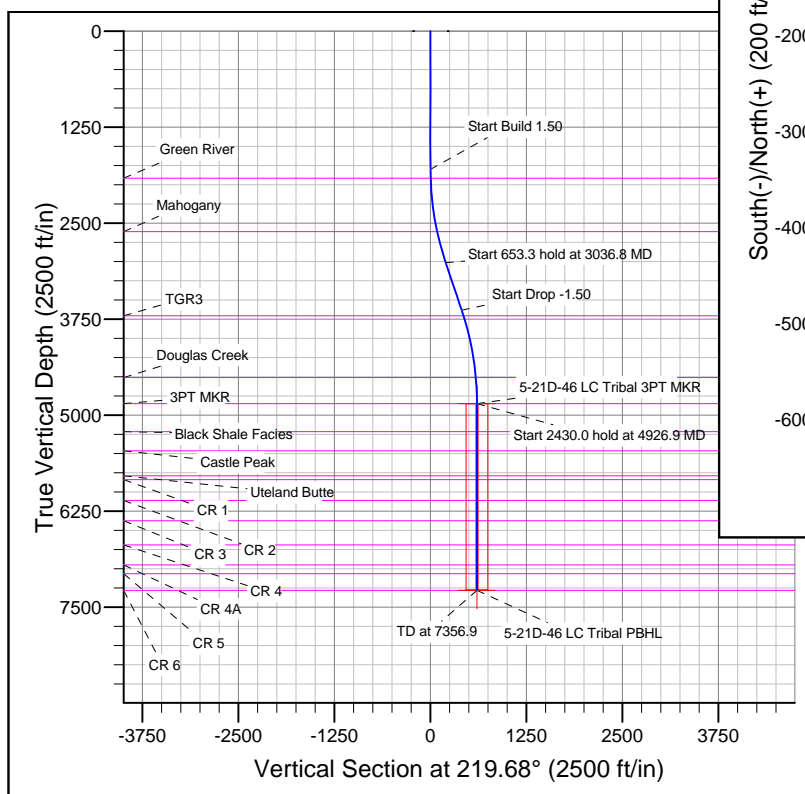
Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	DLeg	TFace	VSec	Target
1	0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0	
2	1800.0	0.00	0.00	1800.0	0.0	0.0	0.00	0.00	0.0	
3	3036.8	18.55	219.68	3015.3	-152.8	-126.7	1.50	219.68	198.5	
4	3690.1	18.55	219.68	3634.7	-312.7	-259.5	0.00	0.00	406.4	
5	4926.9	0.00	0.00	4850.0	-465.5	-386.2	1.50	180.00	604.9	5-21D-46 LC Tribal 3PT MKR
6	7356.9	0.00	0.00	7280.0	-465.5	-386.2	0.00	0.00	604.9	5-21D-46 LC Tribal PBHL

**FORMATION TOP DETAILS**

TVDPath	MDPath	Formation
1915.0	1915.0	Green River
2610.0	2616.2	Mahogany
3705.0	3764.1	TGR3
4510.0	4586.5	Douglas Creek
4850.0	4926.9	3PT MKR
5215.0	5291.9	Black Shale Facies
5465.0	5541.9	Castle Peak
5790.0	5866.9	Uteland Butte
5840.0	5916.9	CR 1
6110.0	6186.9	CR 2
6375.0	6451.9	CR 3
6690.0	6766.9	CR 4
6950.0	7026.9	CR 4A
7065.0	7141.9	CR 5
7280.0	7356.9	CR 6

**CASING DETAILS**

No casing data is available



## Bill Barrett Corp

## Planning Report

<b>Database:</b>	Compass	<b>Local Co-ordinate Reference:</b>	Well 5-21D-46 LC Tribal
<b>Company:</b>	BILL BARRETT CORP	<b>TVD Reference:</b>	KB @ 7110.0ft (Original Well Elev)
<b>Project:</b>	DUCHESNE COUNTY, UT (NAD 27)	<b>MD Reference:</b>	KB @ 7110.0ft (Original Well Elev)
<b>Site:</b>	5-21D-46 LC Tribal	<b>North Reference:</b>	True
<b>Well:</b>	5-21D-46 LC Tribal	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	Wellbore #1		
<b>Design:</b>	Design #1		

<b>Project</b>	DUCHESNE COUNTY, UT (NAD 27)		
<b>Map System:</b>	US State Plane 1927 (Exact solution)	<b>System Datum:</b>	Ground Level
<b>Geo Datum:</b>	NAD 1927 (NADCON CONUS)		
<b>Map Zone:</b>	Utah Central 4302		

Site	5-21D-46 LC Tribal				
Site Position:		Northing:	652,697.19 ft	Latitude:	40° 7' 17.890 N
From:	Lat/Long	Easting:	2,259,491.48 ft	Longitude:	110° 34' 19.420 W
Position Uncertainty:	0.0 ft	Slot Radius:	"	Grid Convergence:	0.59 °

Well	5-21D-46 LC Tribal					
Well Position	+N/-S	0.0 ft	Northing:	652,697.18 ft	Latitude:	40° 7' 17.890 N
	+E/-W	0.0 ft	Easting:	2,259,491.48 ft	Longitude:	110° 34' 19.420 W
Position Uncertainty		0.0 ft	Wellhead Elevation:	ft	Ground Level:	7,095.0 ft

<b>Wellbore</b>	Wellbore #1				
<b>Magnetics</b>	<b>Model Name</b>	<b>Sample Date</b>	<b>Declination (°)</b>	<b>Dip Angle (°)</b>	<b>Field Strength (nT)</b>
	IGRF2010	12/18/2012	11.34	65.72	52,077

<b>Design</b>	Design #1			
<b>Audit Notes:</b>				
<b>Version:</b>	<b>Phase:</b>	PLAN	<b>Tie On Depth:</b>	0.0
<b>Vertical Section:</b>	<b>Depth From (TVD) (ft)</b>	<b>+N/-S (ft)</b>	<b>+E/-W (ft)</b>	<b>Direction (°)</b>
	0.0	0.0	0.0	219.68

<b>Plan Sections</b>										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	TFO (°)	Target
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.00	0.00	
1,800.0	0.00	0.00	1,800.0	0.0	0.0	0.00	0.00	0.00	0.00	
3,036.8	18.55	219.68	3,015.3	-152.8	-126.7	1.50	1.50	0.00	219.68	
3,690.1	18.55	219.68	3,634.7	-312.7	-259.5	0.00	0.00	0.00	0.00	
4,926.9	0.00	0.00	4,850.0	-465.5	-386.2	1.50	-1.50	0.00	180.00	5-21D-46 LC Tribal 3f
7,356.9	0.00	0.00	7,280.0	-465.5	-386.2	0.00	0.00	0.00	0.00	5-21D-46 LC Tribal PI

**Bill Barrett Corp**

## Planning Report

<b>Database:</b>	Compass	<b>Local Co-ordinate Reference:</b>	Well 5-21D-46 LC Tribal
<b>Company:</b>	BILL BARRETT CORP	<b>TVD Reference:</b>	KB @ 7110.0ft (Original Well Elev)
<b>Project:</b>	DUCHESNE COUNTY, UT (NAD 27)	<b>MD Reference:</b>	KB @ 7110.0ft (Original Well Elev)
<b>Site:</b>	5-21D-46 LC Tribal	<b>North Reference:</b>	True
<b>Well:</b>	5-21D-46 LC Tribal	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	Wellbore #1		
<b>Design:</b>	Design #1		

Planned Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.00	0.00	0.00
100.0	0.00	0.00	100.0	0.0	0.0	0.0	0.00	0.00	0.00
200.0	0.00	0.00	200.0	0.0	0.0	0.0	0.00	0.00	0.00
300.0	0.00	0.00	300.0	0.0	0.0	0.0	0.00	0.00	0.00
400.0	0.00	0.00	400.0	0.0	0.0	0.0	0.00	0.00	0.00
500.0	0.00	0.00	500.0	0.0	0.0	0.0	0.00	0.00	0.00
600.0	0.00	0.00	600.0	0.0	0.0	0.0	0.00	0.00	0.00
700.0	0.00	0.00	700.0	0.0	0.0	0.0	0.00	0.00	0.00
800.0	0.00	0.00	800.0	0.0	0.0	0.0	0.00	0.00	0.00
900.0	0.00	0.00	900.0	0.0	0.0	0.0	0.00	0.00	0.00
1,000.0	0.00	0.00	1,000.0	0.0	0.0	0.0	0.00	0.00	0.00
1,100.0	0.00	0.00	1,100.0	0.0	0.0	0.0	0.00	0.00	0.00
1,200.0	0.00	0.00	1,200.0	0.0	0.0	0.0	0.00	0.00	0.00
1,300.0	0.00	0.00	1,300.0	0.0	0.0	0.0	0.00	0.00	0.00
1,400.0	0.00	0.00	1,400.0	0.0	0.0	0.0	0.00	0.00	0.00
1,500.0	0.00	0.00	1,500.0	0.0	0.0	0.0	0.00	0.00	0.00
1,600.0	0.00	0.00	1,600.0	0.0	0.0	0.0	0.00	0.00	0.00
1,700.0	0.00	0.00	1,700.0	0.0	0.0	0.0	0.00	0.00	0.00
1,800.0	0.00	0.00	1,800.0	0.0	0.0	0.0	0.00	0.00	0.00
1,900.0	1.50	219.68	1,900.0	-1.0	-0.8	1.3	1.50	1.50	0.00
1,915.0	1.73	219.68	1,915.0	-1.3	-1.1	1.7	1.50	1.50	0.00
<b>Green River</b>									
2,000.0	3.00	219.68	1,999.9	-4.0	-3.3	5.2	1.50	1.50	0.00
2,100.0	4.50	219.68	2,099.7	-9.1	-7.5	11.8	1.50	1.50	0.00
2,200.0	6.00	219.68	2,199.3	-16.1	-13.4	20.9	1.50	1.50	0.00
2,300.0	7.50	219.68	2,298.6	-25.1	-20.9	32.7	1.50	1.50	0.00
2,400.0	9.00	219.68	2,397.5	-36.2	-30.0	47.0	1.50	1.50	0.00
2,500.0	10.50	219.68	2,496.1	-49.2	-40.8	64.0	1.50	1.50	0.00
2,600.0	12.00	219.68	2,594.2	-64.2	-53.3	83.5	1.50	1.50	0.00
2,616.2	12.24	219.68	2,610.0	-66.9	-55.5	86.9	1.50	1.50	0.00
<b>Mahogany</b>									
2,700.0	13.50	219.68	2,691.7	-81.2	-67.4	105.5	1.50	1.50	0.00
2,800.0	15.00	219.68	2,788.6	-100.2	-83.1	130.2	1.50	1.50	0.00
2,900.0	16.50	219.68	2,884.9	-121.1	-100.4	157.3	1.50	1.50	0.00
3,000.0	18.00	219.68	2,980.4	-143.9	-119.4	186.9	1.50	1.50	0.00
3,036.8	18.55	219.68	3,015.3	-152.8	-126.7	198.5	1.50	1.50	0.00
3,100.0	18.55	219.68	3,075.2	-168.2	-139.6	218.6	0.00	0.00	0.00
3,200.0	18.55	219.68	3,170.0	-192.7	-159.9	250.4	0.00	0.00	0.00
3,300.0	18.55	219.68	3,264.8	-217.2	-180.2	282.2	0.00	0.00	0.00
3,400.0	18.55	219.68	3,359.6	-241.7	-200.5	314.1	0.00	0.00	0.00
3,500.0	18.55	219.68	3,454.4	-266.2	-220.8	345.9	0.00	0.00	0.00
3,600.0	18.55	219.68	3,549.2	-290.7	-241.2	377.7	0.00	0.00	0.00
3,690.1	18.55	219.68	3,634.7	-312.7	-259.5	406.4	0.00	0.00	0.00
3,700.0	18.40	219.68	3,644.0	-315.2	-261.5	409.5	1.50	-1.50	0.00
3,764.1	17.44	219.68	3,705.0	-330.3	-274.0	429.2	1.50	-1.50	0.00
<b>TGR3</b>									
3,800.0	16.90	219.68	3,739.3	-338.5	-280.8	439.8	1.50	-1.50	0.00
3,900.0	15.40	219.68	3,835.4	-359.9	-298.6	467.6	1.50	-1.50	0.00
4,000.0	13.90	219.68	3,932.1	-379.4	-314.7	492.9	1.50	-1.50	0.00
4,100.0	12.40	219.68	4,029.5	-396.9	-329.3	515.7	1.50	-1.50	0.00
4,200.0	10.90	219.68	4,127.4	-412.4	-342.2	535.9	1.50	-1.50	0.00
4,300.0	9.40	219.68	4,225.9	-426.0	-353.4	553.5	1.50	-1.50	0.00
4,400.0	7.90	219.68	4,324.7	-437.6	-363.0	568.6	1.50	-1.50	0.00

**Bill Barrett Corp**

## Planning Report

<b>Database:</b>	Compass	<b>Local Co-ordinate Reference:</b>	Well 5-21D-46 LC Tribal
<b>Company:</b>	BILL BARRETT CORP	<b>TVD Reference:</b>	KB @ 7110.0ft (Original Well Elev)
<b>Project:</b>	DUCHESNE COUNTY, UT (NAD 27)	<b>MD Reference:</b>	KB @ 7110.0ft (Original Well Elev)
<b>Site:</b>	5-21D-46 LC Tribal	<b>North Reference:</b>	True
<b>Well:</b>	5-21D-46 LC Tribal	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	Wellbore #1		
<b>Design:</b>	Design #1		

Planned Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
4,500.0	6.40	219.68	4,423.9	-447.2	-371.0	581.0	1.50	-1.50	0.00
4,586.5	5.11	219.68	4,510.0	-453.8	-376.5	589.7	1.50	-1.50	0.00
<b>Douglas Creek</b>									
4,600.0	4.90	219.68	4,523.4	-454.7	-377.3	590.9	1.50	-1.50	0.00
4,700.0	3.40	219.68	4,623.2	-460.3	-381.9	598.1	1.50	-1.50	0.00
4,800.0	1.90	219.68	4,723.1	-463.9	-384.9	602.7	1.50	-1.50	0.00
4,900.0	0.40	219.68	4,823.1	-465.4	-386.1	604.8	1.50	-1.50	0.00
4,926.9	0.00	0.00	4,850.0	-465.5	-386.2	604.9	1.50	-1.50	520.68
<b>3PT MKR - 5-21D-46 LC Tribal 3PT MKR</b>									
5,000.0	0.00	0.00	4,923.1	-465.5	-386.2	604.9	0.00	0.00	0.00
5,100.0	0.00	0.00	5,023.1	-465.5	-386.2	604.9	0.00	0.00	0.00
5,200.0	0.00	0.00	5,123.1	-465.5	-386.2	604.9	0.00	0.00	0.00
5,291.9	0.00	0.00	5,215.0	-465.5	-386.2	604.9	0.00	0.00	0.00
<b>Black Shale Facies</b>									
5,300.0	0.00	0.00	5,223.1	-465.5	-386.2	604.9	0.00	0.00	0.00
5,400.0	0.00	0.00	5,323.1	-465.5	-386.2	604.9	0.00	0.00	0.00
5,500.0	0.00	0.00	5,423.1	-465.5	-386.2	604.9	0.00	0.00	0.00
5,541.9	0.00	0.00	5,465.0	-465.5	-386.2	604.9	0.00	0.00	0.00
<b>Castle Peak</b>									
5,600.0	0.00	0.00	5,523.1	-465.5	-386.2	604.9	0.00	0.00	0.00
5,700.0	0.00	0.00	5,623.1	-465.5	-386.2	604.9	0.00	0.00	0.00
5,800.0	0.00	0.00	5,723.1	-465.5	-386.2	604.9	0.00	0.00	0.00
5,866.9	0.00	0.00	5,790.0	-465.5	-386.2	604.9	0.00	0.00	0.00
<b>Uteland Butte</b>									
5,900.0	0.00	0.00	5,823.1	-465.5	-386.2	604.9	0.00	0.00	0.00
5,916.9	0.00	0.00	5,840.0	-465.5	-386.2	604.9	0.00	0.00	0.00
<b>CR 1</b>									
6,000.0	0.00	0.00	5,923.1	-465.5	-386.2	604.9	0.00	0.00	0.00
6,100.0	0.00	0.00	6,023.1	-465.5	-386.2	604.9	0.00	0.00	0.00
6,186.9	0.00	0.00	6,110.0	-465.5	-386.2	604.9	0.00	0.00	0.00
<b>CR 2</b>									
6,200.0	0.00	0.00	6,123.1	-465.5	-386.2	604.9	0.00	0.00	0.00
6,300.0	0.00	0.00	6,223.1	-465.5	-386.2	604.9	0.00	0.00	0.00
6,400.0	0.00	0.00	6,323.1	-465.5	-386.2	604.9	0.00	0.00	0.00
6,451.9	0.00	0.00	6,375.0	-465.5	-386.2	604.9	0.00	0.00	0.00
<b>CR 3</b>									
6,500.0	0.00	0.00	6,423.1	-465.5	-386.2	604.9	0.00	0.00	0.00
6,600.0	0.00	0.00	6,523.1	-465.5	-386.2	604.9	0.00	0.00	0.00
6,700.0	0.00	0.00	6,623.1	-465.5	-386.2	604.9	0.00	0.00	0.00
6,766.9	0.00	0.00	6,690.0	-465.5	-386.2	604.9	0.00	0.00	0.00
<b>CR 4</b>									
6,800.0	0.00	0.00	6,723.1	-465.5	-386.2	604.9	0.00	0.00	0.00
6,900.0	0.00	0.00	6,823.1	-465.5	-386.2	604.9	0.00	0.00	0.00
7,000.0	0.00	0.00	6,923.1	-465.5	-386.2	604.9	0.00	0.00	0.00
7,026.9	0.00	0.00	6,950.0	-465.5	-386.2	604.9	0.00	0.00	0.00
<b>CR 4A</b>									
7,100.0	0.00	0.00	7,023.1	-465.5	-386.2	604.9	0.00	0.00	0.00
7,141.9	0.00	0.00	7,065.0	-465.5	-386.2	604.9	0.00	0.00	0.00
<b>CR 5</b>									
7,200.0	0.00	0.00	7,123.1	-465.5	-386.2	604.9	0.00	0.00	0.00
7,300.0	0.00	0.00	7,223.1	-465.5	-386.2	604.9	0.00	0.00	0.00
7,356.9	0.00	0.00	7,280.0	-465.5	-386.2	604.9	0.00	0.00	0.00
<b>CR 6 - 5-21D-46 LC Tribal PBHL</b>									

**Bill Barrett Corp**

## Planning Report

<b>Database:</b>	Compass	<b>Local Co-ordinate Reference:</b>	Well 5-21D-46 LC Tribal
<b>Company:</b>	BILL BARRETT CORP	<b>TVD Reference:</b>	KB @ 7110.0ft (Original Well Elev)
<b>Project:</b>	DUCHESNE COUNTY, UT (NAD 27)	<b>MD Reference:</b>	KB @ 7110.0ft (Original Well Elev)
<b>Site:</b>	5-21D-46 LC Tribal	<b>North Reference:</b>	True
<b>Well:</b>	5-21D-46 LC Tribal	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	Wellbore #1		
<b>Design:</b>	Design #1		

Planned Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)

Targets									
Target Name - hit/miss target - Shape	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (ft)	Easting (ft)	Latitude	Longitude
5-21D-46 LC Tribal 3PT - plan hits target - Rectangle (sides W200.0 H200.0 D2,430.0)	0.00	0.00	4,850.0	-465.5	-386.2	652,227.69	2,259,110.13	40° 7' 13.289 N	110° 34' 24.391 W
5-21D-46 LC Tribal PBH - plan hits target - Rectangle (sides W200.0 H200.0 D0.0)	0.00	0.00	7,280.0	-465.5	-386.2	652,227.69	2,259,110.13	40° 7' 13.289 N	110° 34' 24.391 W

Formations						
Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)	
1,915.0	1,915.0	Green River		0.00		
2,616.2	2,610.0	Mahogany		0.00		
3,764.1	3,705.0	TGR3		0.00		
4,586.5	4,510.0	Douglas Creek		0.00		
4,926.9	4,850.0	3PT MKR		0.00		
5,291.9	5,215.0	Black Shale Facies		0.00		
5,541.9	5,465.0	Castle Peak		0.00		
5,866.9	5,790.0	Uteland Butte		0.00		
5,916.9	5,840.0	CR 1		0.00		
6,186.9	6,110.0	CR 2		0.00		
6,451.9	6,375.0	CR 3		0.00		
6,766.9	6,690.0	CR 4		0.00		
7,026.9	6,950.0	CR 4A		0.00		
7,141.9	7,065.0	CR 5		0.00		
7,356.9	7,280.0	CR 6		0.00		





December 27, 2012

Ms. Diana Mason – Petroleum Technician  
State of Utah Division of Oil, Gas and Mining  
1594 West North Temple, Suite 1210  
P. O. Box 145801  
Salt Lake City, Utah 84114-5801

Re: Directional Drilling R649-3-11  
**Lake Canyon Area #5-21D-46 LC Tribal**  
Surface: 1520' FNL & 1199' FWL, SWNW, 21-T4S-R6W, USM  
Bottom Hole: 1980' FNL & 810' FWL, SWNW, 21-T4S-R6W, USM  
Duchesne County, Utah

Dear Ms. Mason,

Pursuant to the filing of Bill Barrett Corporation's ("BBC") Application for Permit to Drill the above referenced well, we hereby submit this letter in accordance with Oil & Gas Conservation Rules R649-2, R649-3, R649-10 and R649-11, pertaining to the Location and Siting of Wells.

- The proposed location is within our Lake Canyon Area.
- BBC is permitting this well as a directional well in order to minimize surface disturbance. By locating the well at the surface location and directionally drilling from this location, BBC will be able to utilize the existing road and pipelines in the area.
- The well will be drilled under an Exploration and Development Agreement between the Ute Indian Tribe and Ute Distribution Corporation. Ute Energy, LLC owns a right to participate in this well.
- BBC certifies that it is the working interest owner of all lands within 460 feet of the proposed well location, and together with Ute Energy, LLC, we own 100% of the working interest in these lands.

Based on the information provided, BBC requests that the permit be granted pursuant to R649-3-11. Should you have any questions or need further information, please contact me at 303-312-8544.

Sincerely,

David Watts  
Landman

1099 18<sup>TH</sup> STREET  
SUITE 2300  
DENVER, CO 80202  
P 303.293.9100  
F 303.291.0420

RECEIVED: Dec. 27, 2012

<b>STATE OF UTAH</b> DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		<b>FORM 9</b>			
<b>SUNDRY NOTICES AND REPORTS ON WELLS</b>  Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.		<b>5. LEASE DESIGNATION AND SERIAL NUMBER:</b> 14-20-H62-6108			
<b>1. TYPE OF WELL</b> Gas Well		<b>6. IF INDIAN, ALLOTTEE OR TRIBE NAME:</b> UTE			
<b>2. NAME OF OPERATOR:</b> BILL BARRETT CORP		<b>7. UNIT or CA AGREEMENT NAME:</b>			
<b>3. ADDRESS OF OPERATOR:</b> 1099 18th Street Ste 2300 , Denver, CO, 80202		<b>8. WELL NAME and NUMBER:</b> LC TRIBAL 5-21D-46			
<b>4. LOCATION OF WELL</b> <b>FOOTAGES AT SURFACE:</b> 1520 FNL 1199 FWL <b>QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:</b> Qtr/Qtr: SWNW Section: 21 Township: 04.0S Range: 06.0W Meridian: U		<b>9. API NUMBER:</b> 43013336580000			
<b>9. FIELD and POOL or WILDCAT:</b> ALTAMONT		<b>COUNTY:</b> DUCHESNE			
<b>STATE:</b> UTAH					
<b>11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA</b>					
<b>TYPE OF SUBMISSION</b>  <input checked="" type="checkbox"/> <b>NOTICE OF INTENT</b> Approximate date work will start: 3/5/2013  <input type="checkbox"/> <b>SUBSEQUENT REPORT</b> Date of Work Completion:  <input type="checkbox"/> <b>SPUD REPORT</b> Date of Spud:  <input type="checkbox"/> <b>DRILLING REPORT</b> Report Date:	<b>TYPE OF ACTION</b>  <table style="width: 100%; border: none;"> <tr> <td style="width: 33%; vertical-align: top;"> <input type="checkbox"/> ACIDIZE  <input checked="" type="checkbox"/> CHANGE TO PREVIOUS PLANS  <input type="checkbox"/> CHANGE WELL STATUS  <input type="checkbox"/> DEEPEN  <input type="checkbox"/> OPERATOR CHANGE  <input type="checkbox"/> PRODUCTION START OR RESUME  <input type="checkbox"/> REPERFORATE CURRENT FORMATION  <input type="checkbox"/> TUBING REPAIR  <input type="checkbox"/> WATER SHUTOFF  <input type="checkbox"/> WILDCAT WELL DETERMINATION         </td> <td style="width: 33%; vertical-align: top;"> <input type="checkbox"/> ALTER CASING  <input type="checkbox"/> CHANGE TUBING  <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS  <input type="checkbox"/> FRACTURE TREAT  <input type="checkbox"/> PLUG AND ABANDON  <input type="checkbox"/> RECLAMATION OF WELL SITE  <input type="checkbox"/> SIDETRACK TO REPAIR WELL  <input type="checkbox"/> VENT OR FLARE  <input type="checkbox"/> SI TA STATUS EXTENSION  <input type="checkbox"/> OTHER         </td> <td style="width: 33%; vertical-align: top;"> <input type="checkbox"/> CASING REPAIR  <input type="checkbox"/> CHANGE WELL NAME  <input type="checkbox"/> CONVERT WELL TYPE  <input type="checkbox"/> NEW CONSTRUCTION  <input type="checkbox"/> PLUG BACK  <input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION  <input type="checkbox"/> TEMPORARY ABANDON  <input type="checkbox"/> WATER DISPOSAL  <input type="checkbox"/> APD EXTENSION            OTHER: <input style="width: 100px;" type="text"/> </td> </tr> </table>		<input type="checkbox"/> ACIDIZE <input checked="" type="checkbox"/> CHANGE TO PREVIOUS PLANS <input type="checkbox"/> CHANGE WELL STATUS <input type="checkbox"/> DEEPEN <input type="checkbox"/> OPERATOR CHANGE <input type="checkbox"/> PRODUCTION START OR RESUME <input type="checkbox"/> REPERFORATE CURRENT FORMATION <input type="checkbox"/> TUBING REPAIR <input type="checkbox"/> WATER SHUTOFF <input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> ALTER CASING <input type="checkbox"/> CHANGE TUBING <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS <input type="checkbox"/> FRACTURE TREAT <input type="checkbox"/> PLUG AND ABANDON <input type="checkbox"/> RECLAMATION OF WELL SITE <input type="checkbox"/> SIDETRACK TO REPAIR WELL <input type="checkbox"/> VENT OR FLARE <input type="checkbox"/> SI TA STATUS EXTENSION <input type="checkbox"/> OTHER	<input type="checkbox"/> CASING REPAIR <input type="checkbox"/> CHANGE WELL NAME <input type="checkbox"/> CONVERT WELL TYPE <input type="checkbox"/> NEW CONSTRUCTION <input type="checkbox"/> PLUG BACK <input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION <input type="checkbox"/> TEMPORARY ABANDON <input type="checkbox"/> WATER DISPOSAL <input type="checkbox"/> APD EXTENSION OTHER: <input style="width: 100px;" type="text"/>
<input type="checkbox"/> ACIDIZE <input checked="" type="checkbox"/> CHANGE TO PREVIOUS PLANS <input type="checkbox"/> CHANGE WELL STATUS <input type="checkbox"/> DEEPEN <input type="checkbox"/> OPERATOR CHANGE <input type="checkbox"/> PRODUCTION START OR RESUME <input type="checkbox"/> REPERFORATE CURRENT FORMATION <input type="checkbox"/> TUBING REPAIR <input type="checkbox"/> WATER SHUTOFF <input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> ALTER CASING <input type="checkbox"/> CHANGE TUBING <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS <input type="checkbox"/> FRACTURE TREAT <input type="checkbox"/> PLUG AND ABANDON <input type="checkbox"/> RECLAMATION OF WELL SITE <input type="checkbox"/> SIDETRACK TO REPAIR WELL <input type="checkbox"/> VENT OR FLARE <input type="checkbox"/> SI TA STATUS EXTENSION <input type="checkbox"/> OTHER	<input type="checkbox"/> CASING REPAIR <input type="checkbox"/> CHANGE WELL NAME <input type="checkbox"/> CONVERT WELL TYPE <input type="checkbox"/> NEW CONSTRUCTION <input type="checkbox"/> PLUG BACK <input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION <input type="checkbox"/> TEMPORARY ABANDON <input type="checkbox"/> WATER DISPOSAL <input type="checkbox"/> APD EXTENSION OTHER: <input style="width: 100px;" type="text"/>			
<b>12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.</b> BBC hereby requests to change the 9-5/8" surface casing depth that was approved for this location from 1700' to 1800'. Please see revised drilling program attached.					
<b>Accepted by the</b> <b>Utah Division of</b> <b>Oil, Gas and Mining</b>  <b>Date:</b> January 31, 2013 <b>By:</b> <u>Derek Quist</u>					
<b>NAME (PLEASE PRINT)</b> Venessa Langmacher		<b>PHONE NUMBER</b> 303 312-8172			
<b>SIGNATURE</b> N/A		<b>TITLE</b> Senior Permit Analyst			
<b>DATE</b> 1/16/2013					

**BILL BARRETT CORPORATION**  
**DRILLING PLAN**

**LC Tribal 5-21D-46**

SW NW, 1520' FNL and 1199' FWL, Section 21, T4S-R6W, USB&M (surface hole)

SW NW, 1980' FNL and 810' FWL, Section 21, T4S-R6W, USB&M (bottom hole)

Duchesne County, Utah

**1 - 2. Estimated Tops of Geological Markers and Formations Expected to Contain Water, Oil and Gas and Other Minerals**

<u>Formation</u>	<u>Depth – MD</u>	<u>Depth - TVD</u>
Green River	1,915'	1,915'
Mahogany	2,616'	2,610'
Lower Green River*	3,764'	3,705'
Douglas Creek	4,586'	4,510'
Black Shale	5,291'	5,215'
Castle Peak	5,541'	5,465'
Uteland Butte	5,866'	5,790'
TD	7,357'	7,280'

\*PROSPECTIVE PAY

The Wasatch and the Lower Green River are primary objectives for oil/gas.

Base of Useable Water = 3,010'

**3. BOP and Pressure Containment Data**

<u>Depth Intervals</u>	<u>BOP Equipment</u>
0 – 1,800'	No pressure control required
1,800' – TD	11" 5000# Ram Type BOP 11" 5000# Annular BOP
- Drilling spool to accommodate choke and kill lines;	
- Ancillary equipment and choke manifold rated at 5,000 psi. All BOP and BOPE tests will be in accordance with the requirements of onshore Order No. 2;	
- The BLM and the State of Utah Division of Oil, Gas and Mining will be notified 24 hours in advance of all BOP pressure tests.	
- BOP hand wheels may be underneath the sub-structure of the rig if the drilling rig used is set up To operate most efficiently in this manner.	

**4. Casing Program**

<u>Hole Size</u>	<u>SETTING DEPTH</u>		<u>Casing Size</u>	<u>Casing Weight</u>	<u>Casing Grade</u>	<u>Thread</u>	<u>Condition</u>
	<u>(FROM)</u>	<u>(TO)</u>					
26"	Surface	80'	16"	65#			
12 1/4"	Surface	1,800'	9 5/8"	36#	J or K 55	ST&C	New
8 3/4"	Surface	TD	5 1/2"	17#	P-110	LT&C	New

Bill Barrett Corporation  
Drilling Program  
LC Tribal 5-21D-46  
Duchesne County, Utah

## 5. Cementing Program

16" Conductor Casing	Grout
9 5/8" Surface Casing	Lead: 240 sx Halliburton Light Premium with additives mixed at 11.0 ppg (yield = 3.16 ft <sup>3</sup> /sx) circulated to surface with 75% excess. TOC @ Surface Tail: 210 sx Halliburton Premium Plus cement with additives mixed at 14.8 ppg (yield = 1.36 ft <sup>3</sup> /sx), calculated hole volume with 75% excess. TOC @ 1,300'
5 1/2" Production Casing	Lead: 580 sx Tuned Light cement with additives mixed at 11.0 ppg (yield = 2.31 ft <sup>3</sup> /sx). TOC @ 1,300' Tail: 690 sx Halliburton Econocem cement with additives mixed at 13.5 ppg (yield = 1.42 ft <sup>3</sup> /sx). Top of cement to be determined by log and sample evaluation; estimated TOC @ 4,791'

## 6. Mud Program

<u>Interval</u>	<u>Weight</u>	<u>Viscosity</u>	<u>Fluid Loss</u> <u>(API filtrate)</u>	<u>Remarks</u>
0' – 80'	8.3 – 8.8	26 – 36	NC	Freshwater Spud Mud Fluid System
80' – 1,800'	8.3 – 8.8	26 – 36	NC	Freshwater Spud Mud Fluid System
1,800' – TD	8.6 – 9.6	42-52	20 cc or less	DAP Polymer Fluid System
Note: Sufficient mud materials to maintain mud properties, control lost circulation and to contain "kicks" will be available at wellsite. BBC may require minor amounts of diesel to be added to its fluid system in order to reduce torque and drag.				

## 7. Testing, Logging and Core Programs

Cores	None anticipated;
Testing	None anticipated; drill stem tests may be run on shows of interest;
Sampling	30' to 50' samples; surface casing to TD. Preserve samples all show intervals;
Surveys	MWD as needed to land wellbore;
Logging	DIL-GR-SP, FDC-CNL-GR-CALIPER-Pe-Microlog, Sonic-GR (all TD to surface). FMI & Sonic Scanner to be run at geologist's discretion.

## 8. Anticipated Abnormal Pressures or Temperatures

No abnormal pressures or temperatures or other hazards are anticipated.

Maximum anticipated bottom hole pressure equals approximately 3634 psi\* and maximum anticipated surface pressure equals approximately 2032 psi\*\* (bottom hole pressure minus the pressure of a partially evacuated hole calculated at 0.22 psi/foot).

\*Max Mud Wt x 0.052 x TD = A (bottom hole pressure)

\*\*Maximum surface pressure = A – (0.22 x TD)

Bill Barrett Corporation  
Drilling Program  
LC Tribal 5-21D-46  
Duchesne County, Utah

**9. Auxiliary Equipment**

- a) Upper kelly cock; lower Kelly cock will be installed while drilling
  - b) Inside BOP or stab-in valve (available on rig floor)
  - c) Safety valve(s) and subs to fit all string connections in use
- Mud monitoring will be visually observed

**10. Location and Type of Water Supply**

Water for the drilling and completion will be trucked from the Duchesne City Culinary Water Dock located in Sec. 1, T4S, R5W water right number 43-180.

**11. Drilling Schedule**

Location Construction: February 2013  
Spud: February 2013  
Duration: 15 days drilling time  
45 days completion time

<b>STATE OF UTAH</b> DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		<b>FORM 9</b>
<b>SUNDRY NOTICES AND REPORTS ON WELLS</b>  Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.		<b>5. LEASE DESIGNATION AND SERIAL NUMBER:</b> 14-20-H62-6108
<b>1. TYPE OF WELL</b> Gas Well		<b>6. IF INDIAN, ALLOTTEE OR TRIBE NAME:</b> UTE
<b>2. NAME OF OPERATOR:</b> BILL BARRETT CORP		<b>7. UNIT or CA AGREEMENT NAME:</b>
<b>3. ADDRESS OF OPERATOR:</b> 1099 18th Street Ste 2300 , Denver, CO, 80202		<b>8. WELL NAME and NUMBER:</b> LC TRIBAL 5-21D-46
<b>4. LOCATION OF WELL</b> <b>FOOTAGES AT SURFACE:</b> 1520 FNL 1199 FWL <b>QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:</b> Qtr/Qtr: SWNW Section: 21 Township: 04.0S Range: 06.0W Meridian: U		<b>9. API NUMBER:</b> 43013336580000
<b>PHONE NUMBER:</b> 303 312-8164 Ext		<b>9. FIELD and POOL or WILDCAT:</b> ALTAMONT
<b>COUNTY:</b> DUCHESNE		<b>STATE:</b> UTAH

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION			
<input type="checkbox"/> NOTICE OF INTENT Approximate date work will start:	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> CASING REPAIR	
<input type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion:	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> CHANGE WELL NAME	
<input checked="" type="checkbox"/> SPUD REPORT Date of Spud: <b>2/15/2013</b>	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> CONVERT WELL TYPE	
<input type="checkbox"/> DRILLING REPORT Report Date:	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> NEW CONSTRUCTION	
	<input type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> PLUG BACK	
	<input type="checkbox"/> PRODUCTION START OR RESUME	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION	
	<input type="checkbox"/> REPERFORATE CURRENT FORMATION	<input type="checkbox"/> SIDETRACK TO REPAIR WELL	<input type="checkbox"/> TEMPORARY ABANDON	
	<input type="checkbox"/> TUBING REPAIR	<input type="checkbox"/> VENT OR FLARE	<input type="checkbox"/> WATER DISPOSAL	
	<input type="checkbox"/> WATER SHUTOFF	<input type="checkbox"/> SI TA STATUS EXTENSION	<input type="checkbox"/> APD EXTENSION	
	<input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> OTHER	OTHER: <input style="width: 100px;" type="text"/>	

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.  
 This well was spud on 2/15/13 at 8:40 am by Triple A Drilling, Rig #TA 4037, Rig Type Soilmec SR/30. Continuous drilling is planned to commence on approximately 4/26/13.

Accepted by the  
 Utah Division of  
 Oil, Gas and Mining  
**FOR RECORD ONLY**  
 February 15, 2013

<b>NAME (PLEASE PRINT)</b> Venessa Langmacher	<b>PHONE NUMBER</b> 303 312-8172	<b>TITLE</b> Senior Permit Analyst
<b>SIGNATURE</b> N/A	<b>DATE</b> 2/15/2013	



**STATE OF UTAH**  
DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF OIL, GAS AND MINING

FORM 6

**ENTITY ACTION FORM**

Operator: Bill Barrett Corporation Operator Account Number: N 2165  
Address: 1099 18th Street, Suite 2300  
city Denver  
state CO zip 80202 Phone Number: (303) 312-8172

**Well 1**

API Number	Well Name		QQ	Sec	Twp	Rng	County
4301333658	LC Tribal 5-21D-46		SWNW	21	4S	6W	Duchesne
Action Code	Current Entity Number	New Entity Number	Spud Date		Entity Assignment Effective Date		
A	new	100007	2/15/2013		2/19/2013		
<b>Comments:</b> Spudding Operation was conducted by Triple A Drilling @ 8:40 am. <u>WSTC</u>							

**Well 2**

API Number	Well Name		QQ	Sec	Twp	Rng	County
Action Code	Current Entity Number	New Entity Number	Spud Date		Entity Assignment Effective Date		
<b>Comments:</b>							

**Well 3**

API Number	Well Name		QQ	Sec	Twp	Rng	County
Action Code	Current Entity Number	New Entity Number	Spud Date		Entity Assignment Effective Date		
<b>Comments:</b>							

**ACTION CODES:**

- A - Establish new entity for new well (single well only)
- B - Add new well to existing entity (group or unit well)
- C - Re-assign well from one existing entity to another existing entity
- D - Re-assign well from one existing entity to a new entity
- E - Other (Explain in 'comments' section)

Venessa Langmacher

Name (Please Print)

Venessa Langmacher

Signature

Sr Permit Analyst

Title

2/15/2013

Date

**RECEIVED**

**FEB 19 2013**

Div. of Oil, Gas & Mining

<b>STATE OF UTAH</b> DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		FORM 9
<b>SUNDRY NOTICES AND REPORTS ON WELLS</b>  Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.		<b>5. LEASE DESIGNATION AND SERIAL NUMBER:</b> 14-20-H62-6108
		<b>6. IF INDIAN, ALLOTTEE OR TRIBE NAME:</b> UTE
<b>1. TYPE OF WELL</b> Gas Well		<b>7. UNIT or CA AGREEMENT NAME:</b>
<b>2. NAME OF OPERATOR:</b> BILL BARRETT CORP		<b>8. WELL NAME and NUMBER:</b> LC TRIBAL 5-21D-46
<b>3. ADDRESS OF OPERATOR:</b> 1099 18th Street Ste 2300 , Denver, CO, 80202	<b>PHONE NUMBER:</b> 303 312-8164 Ext	<b>9. API NUMBER:</b> 43013336580000
<b>4. LOCATION OF WELL</b> <b>FOOTAGES AT SURFACE:</b> 1520 FNL 1199 FWL <b>QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:</b> Qtr/Qtr: SWNW Section: 21 Township: 04.0S Range: 06.0W Meridian: U		<b>9. FIELD and POOL or WILDCAT:</b> ALTAMONT
		<b>COUNTY:</b> DUCHESNE
		<b>STATE:</b> UTAH

11.

CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION			
<input type="checkbox"/> NOTICE OF INTENT Approximate date work will start:	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> CASING REPAIR	
<input type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion:	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> CHANGE WELL NAME	
<input type="checkbox"/> SPUD REPORT Date of Spud:	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> CONVERT WELL TYPE	
<input checked="" type="checkbox"/> DRILLING REPORT Report Date: 2/28/2013	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> NEW CONSTRUCTION	
	<input type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> PLUG BACK	
	<input type="checkbox"/> PRODUCTION START OR RESUME	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION	
	<input type="checkbox"/> REPERFORATE CURRENT FORMATION	<input type="checkbox"/> SIDETRACK TO REPAIR WELL	<input type="checkbox"/> TEMPORARY ABANDON	
	<input type="checkbox"/> TUBING REPAIR	<input type="checkbox"/> VENT OR FLARE	<input type="checkbox"/> WATER DISPOSAL	
	<input type="checkbox"/> WATER SHUTOFF	<input type="checkbox"/> SI TA STATUS EXTENSION	<input type="checkbox"/> APD EXTENSION	
	<input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> OTHER	OTHER: <input style="width: 100px;" type="text"/>	

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

February 2013 monthly drilling report attached.

**Accepted by the**  
**Utah Division of**  
**Oil, Gas and Mining**  
**FOR RECORD ONLY**  
 March 05, 2013

<b>NAME (PLEASE PRINT)</b> Brady Riley	<b>PHONE NUMBER</b> 303 312-8115	<b>TITLE</b> Permit Analyst
<b>SIGNATURE</b> N/A		<b>DATE</b> 3/5/2013

**5-21D-46 LC Tribal 2/18/2013 06:00 - 2/19/2013 06:00**

API/UWI 43013336580000	State/Province Utah	County Duchesne	Field Name Brundage Canyon/Lake Canyon	Well Status DRILLING	Total Depth (ftKB) 6,580.0	Primary Job Type Drilling/Completion
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**Time Log**

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	12.00	18:00	1	RIGUP & TEARDOWN	LOAD OUT DERRICK, SKID RAILS, SUB SPREADERS, FUEL TANKS, WATER TANKS, MATS, COMBO HOUSE, ROP DRIVE C-CAN, OIL BUNKERS/TRUCK & TRACTOR SLIDE OFF ROAD, PULLED OUT WITH CRANE AND POLE TRUCK/SAFE INCIDENT REPORT SUBMITTED/MIRU, SUBS, MATTING BOARDS, MUD PITS, MUD PUMPS, MATTING BOARDS, FUEL TANK, DAY TANK, PIPE RACKS, D.C./SET MATTING BOARDS/ RIG 10% R/U/ 50 % OF RIG ON LOCATION

**5-21D-46 LC Tribal 2/19/2013 06:00 - 2/20/2013 06:00**

API/UWI 43013336580000	State/Province Utah	County Duchesne	Field Name Brundage Canyon/Lake Canyon	Well Status DRILLING	Total Depth (ftKB) 6,580.0	Primary Job Type Drilling/Completion
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**Time Log**

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	12.00	18:00	1	RIGUP & TEARDOWN	RD/ MIRU/LOAD OUT LAST OF RIG, SET MATS, MUD TANKS, SUB, MUD PUMPS, WATER TANK, PUT DERRICK TOGETHER, SET DRAG CHAIN, SCR HOUSE
18:00	12.00	06:00	1	RIGUP & TEARDOWN	WAIT ON DAYLIGHT

**5-21D-46 LC Tribal 2/20/2013 06:00 - 2/21/2013 06:00**

API/UWI 43013336580000	State/Province Utah	County Duchesne	Field Name Brundage Canyon/Lake Canyon	Well Status DRILLING	Total Depth (ftKB) 6,580.0	Primary Job Type Drilling/Completion
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**Time Log**

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	12.00	18:00	1	RIGUP & TEARDOWN	SPOOLED BLOCKS, SET SHAKERS, FUEL TANKS, SET DERRICK ON SUB, FABRICATE ON PITS
18:00	12.00	06:00	1	RIGUP & TEARDOWN	WAIT ON DAYLIGHT

**5-21D-46 LC Tribal 2/21/2013 06:00 - 2/22/2013 06:00**

API/UWI 43013336580000	State/Province Utah	County Duchesne	Field Name Brundage Canyon/Lake Canyon	Well Status DRILLING	Total Depth (ftKB) 6,580.0	Primary Job Type Drilling/Completion
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**Time Log**

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	12.00	18:00	1	RIGUP & TEARDOWN	RU/GAS BUSTER, PITS, PRE-MIX, BOILER, ELECTRICAL, WATER, STEAM/FABRICATE ON MUD PITS
18:00	12.00	06:00	1	RIGUP & TEARDOWN	WAIT ON DAYLIGHT

**5-21D-46 LC Tribal 2/22/2013 06:00 - 2/23/2013 06:00**

API/UWI 43013336580000	State/Province Utah	County Duchesne	Field Name Brundage Canyon/Lake Canyon	Well Status DRILLING	Total Depth (ftKB) 6,580.0	Primary Job Type Drilling/Completion
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**Time Log**

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	12.00	18:00	1	RIGUP & TEARDOWN	RU DERRICK, DRAWWORKS, GAS BUSTER, ELECTRICAL, SET VFW, SPOOL LINE ON DRUM, FABRICATE ON PITS, FABRICATE ON PRE-MIX HOPPER
18:00	12.00	06:00	1	RIGUP & TEARDOWN	WAIT ON DAYLIGHT

**5-21D-46 LC Tribal 2/23/2013 06:00 - 2/24/2013 06:00**

API/UWI 43013336580000	State/Province Utah	County Duchesne	Field Name Brundage Canyon/Lake Canyon	Well Status DRILLING	Total Depth (ftKB) 6,580.0	Primary Job Type Drilling/Completion
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**Time Log**

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	12.00	18:00	1	RIGUP & TEARDOWN	RU/RAISE DERRICK, PU TOP DRIVE & TRACK, INSTALL 3" WATER SYSTEMN ON MUD PITS FROM YELLOW DOG, HOOK UP AND POWER UP TOP DRIVE, INSTALL & FABRICATE ON FLARE LINES, INSTALL HAND RAILS ON FLOOR, SLIP & CUT DRLG LINE, INSTALL SLIDES ON SHAKERS, PUT UP LIGHTS, INSTALL STEAM HEATERS & STEAM LINES TO UPRIGHTS & DAY TANK.
18:00	12.00	06:00	1	RIGUP & TEARDOWN	WAIT ON DAYLIGHT

**5-21D-46 LC Tribal 2/24/2013 06:00 - 2/25/2013 06:00**

API/UWI 43013336580000	State/Province Utah	County Duchesne	Field Name Brundage Canyon/Lake Canyon	Well Status DRILLING	Total Depth (ftKB) 6,580.0	Primary Job Type Drilling/Completion
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**Time Log**

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	18.00	00:00	1	RIGUP & TEARDOWN	RU FLOOR, PASON, INSTALL SAVER SUB, BAILS, ELEVATORS, CMT DIVERTER, FILL PITS, INSTALL CONDUCTOR, MIX SPUD MUD, PUT BHA ON RACKS, STRAP, / DAY WORK @ 18:00 SST
00:00	2.50	02:30	20	DIRECTIONAL WORK	PJSM W/ DIRECTIONAL & MWD/PU DIRECTIONAL TOOLS
02:30	3.00	05:30	2	DRILL ACTUAL	DRILL ACTUAL/ 98'-300'/ WOB 10K-15K/PUMP #1 95 / PUMP #2 95/ ROT RPM 40/ BIT RPM 87/ ROP 67.33
05:30	0.50	06:00	7	LUBRICATE RIG	RIG SERVICE WORK ON PIPE SPINNERS

**5-21D-46 LC Tribal 2/25/2013 06:00 - 2/26/2013 06:00**

API/UWI 43013336580000	State/Province Utah	County Duchesne	Field Name Brundage Canyon/Lake Canyon	Well Status DRILLING	Total Depth (ftKB) 6,580.0	Primary Job Type Drilling/Completion
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**Time Log**

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	4.00	10:00	2	DRILL ACTUAL	DRILL ACTUAL/ 300'-693'/ WOB 15K-20K/PUMP #1 95 / PUMP #2 95/ ROT RPM 40/ BIT RPM 87/ ROP 98.25
10:00	0.50	10:30	8	REPAIR RIG	CHANGE GRABBER DIES
10:30	0.50	11:00	7	LUBRICATE RIG	RIG SERVICE
11:00	8.50	19:30	2	DRILL ACTUAL	DRILL ACTUAL/ 693'-1,570'/ WOB 25K-28K/PUMP #1 95 / PUMP #2 95/ ROT RPM 40/ BIT RPM 87/ ROP 103.17/LOST RETURNS 150 BBL LOSS
19:30	1.50	21:00	5	COND MUD & CIRC	CONDITION MUD TO 25% L.C.M./PULL SCREENS/PUMP 60 BBLS 40% L.C.M. SWEEP ESTABLISHED RETURNS
21:00	4.50	01:30	2	DRILL ACTUAL	DRILL ACTUAL/ 1,570'-1,807'/ WOB 25K-30K/PUMP #1 75 / PUMP #2 75/ ROT RPM 40/ BIT RPM 72/ ROP 52.66/LOST RETURNS AGAIN UP HOLE FLUID @ BTM CONDUTOR
01:30	1.50	03:00	5	COND MUD & CIRC	CONDITON MUD/SPOT 40% L.C.M. SWEEP/BLOW DOWN TOP DRIVE & STAND PIPE
03:00	2.00	05:00	6	TRIPS	WIPER TRIP/TOOH TO 6" D.C./PUMP 50 BBLS DOWN HOLE NO RETURNS/TIH TO 1,000'
05:00	1.00	06:00	5	COND MUD & CIRC	COND MUD TO 30% L.C.M./PUMP 50 BBLS 40% L.C.M./CHASE STRING CLEAR

**5-21D-46 LC Tribal 2/26/2013 06:00 - 2/27/2013 06:00**

API/UWI 43013336580000	State/Province Utah	County Duchesne	Field Name Brundage Canyon/Lake Canyon	Well Status DRILLING	Total Depth (ftKB) 6,580.0	Primary Job Type Drilling/Completion
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**Time Log**

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	0.50	06:30	6	TRIPS	TIH T/1,443'
06:30	2.50	09:00	5	COND MUD & CIRC	COND MUD TO 40% L.C.M./BRK CORC.
09:00	0.50	09:30	6	TRIPS	TIH TO 1,720'
09:30	1.50	11:00	5	COND MUD & CIRC	CIRC BTMS UP/FILL HOLE W/40% L.C.M.
11:00	1.50	12:30	6	TRIPS	TOOH W/ BIT #1
12:30	0.50	13:00	12	RUN CASING & CEMENT	PJSM W/LAY DOWN MACHINE & CASING CREW
13:00	1.50	14:30	20	DIRECTIONAL WORK	LD DIR. TOOLS
14:30	6.50	21:00	12	RUN CASING & CEMENT	CHANGE OUT BAILS/RUN 41 JTS 1,810.43' 9-5/8 J-55 36# 8RD ST&C 8RD Rng3 SURFACE CSG, 10-CENTRALIZERS/SHOE @ 1,805'/BRK CIRC @ 664', 1,325', & 1,805'/ RD CASING CREW

**Time Log**

Start Time	Dur (hr)	End Time	Code	Category	Com
21:00	5.00	02:00	12	RUN CASING & CEMENT	RU HALLIBURTON/HELD SAFETY MEETING/TEST LINES @ 3,000 PSI PUMP 20 BBL H2O SPACER/40BBL SUPER FLUSH/ 20 BBL H2O SPACER/ 260 SKS 120.0 BBL 673.77 CU/FT 11.0PPG 3.16 YEILD 19.48 GAL/SK/240 SKS 56.8 BBL 318.92 CU/FT 14.8PPG 1.33 YEILD 6.31 GAL/SK DISPLACE 136.3 BBL DISPLACEMENT H2O FLUID, FINAL LIFT 340PSI, BUMP PLUG @ 830 PSI, FLOATS HELD. YES LOST RETURNS @ START OF DISPLACEMENT
02:00	2.00	04:00	13	WAIT ON CEMENT	WOC/RD CMT HEAD/CSG SPIDERS/TIH W/ 1" FOR TOP JOB.
04:00	1.50	05:30	12	RUN CASING & CEMENT	TOP JOB/PUMP 200SK 15.8 40.9 BBL 2% CALCIUM/CMT TO BTM OF FLOWLINE AND FELL BACK LAST 6-BBL/TOOH W/1"
05:30	0.50	06:00	13	WAIT ON CEMENT	WAIT ON CMT

**STATE OF UTAH**  
DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF OIL, GAS AND MINING

FORM 6

**ENTITY ACTION FORM**

Operator: Bill Barrett Corporation Operator Account Number: N 2165  
Address: 1099 18th Street, Suite 2300  
city Denver  
state CO zip 80202 Phone Number: (303) 312-8172

**Well 1**

API Number	Well Name		QQ	Sec	Twp	Rng	County
4301333658	LC Tribal 5-21D-46		SWNW	21	4S	6W	Duchesne
Action Code	Current Entity Number	New Entity Number	Spud Date			Entity Assignment Effective Date	
A	<u>new</u>	<u>100007</u>	<u>2/15/2013</u>			<u>2/19/2013</u>	
<b>Comments:</b> <u>WSTC</u> Spudding Operation was conducted by Triple A Drilling @ 8:40 am.							

**Well 2**

API Number	Well Name		QQ	Sec	Twp	Rng	County
Action Code	Current Entity Number	New Entity Number	Spud Date			Entity Assignment Effective Date	
<b>Comments:</b>							

**Well 3**

API Number	Well Name		QQ	Sec	Twp	Rng	County
Action Code	Current Entity Number	New Entity Number	Spud Date			Entity Assignment Effective Date	
<b>Comments:</b>							

**ACTION CODES:**

- A - Establish new entity for new well (single well only)
- B - Add new well to existing entity (group or unit well)
- C - Re-assign well from one existing entity to another existing entity
- D - Re-assign well from one existing entity to a new entity
- E - Other (Explain in 'comments' section)

Venessa Langmacher

Name (Please Print)

Venessa Langmacher

Signature

Sr Permit Analyst

Title

2/15/2013

Date

**RECEIVED**

**FEB 19 2013**

Div. of Oil, Gas & Mining



BLM - Vernal Field Office - Notification Form

Operator Bill Barrett Corp. Rig Name/# SST RIG 17  
Submitted By CECIL E. CROW Phone Number 435-322-0943  
Well Name/Number 5-21D-46 LC TRIBAL  
Qtr/Qtr SW/NW Section 21 Township T4S Range R6W  
Lease Serial Number 14-20-H6-6108  
API Number 43013336580000

Spud Notice – Spud is the initial spudding of the well, not drilling out below a casing string.

Date/Time \_\_\_\_\_ AM ☐ PM ☐

Casing – Please report time casing run starts, not cementing times.

- ☒ Surface Casing
- ☐ Intermediate Casing
- ☐ Production Casing
- ☐ Liner
- ☐ Other

RECEIVED

FEB 25 2013

DIV. OF OIL, GAS & MINING

Date/Time 2/26/13 06:00 AM ☒ PM ☐

BOPE

- ☒ Initial BOPE test at surface casing point
- ☐ BOPE test at intermediate casing point
- ☐ 30 day BOPE test
- ☐ Other

Date/Time 2/26/13 18:00 AM ☐ PM ☒

Remarks RUN SURFACE CSG & CMT/BOPE TEST

BLM - Vernal Field Office - Notification Form

Operator Bill Barrett Corp. Rig Name/# SST RIG 17  
Submitted By CECIL E. CROW Phone Number 435-322-0943  
Well Name/Number 5-21D-46 LC TRIBAL  
Qtr/Qtr SW/NW Section 21 Township T4S Range R6W  
Lease Serial Number 14-20-H6-6108  
API Number 43013336580000

Spud Notice – Spud is the initial spudding of the well, not drilling out below a casing string.

Date/Time \_\_\_\_\_ AM ☐ PM ☐

Casing – Please report time casing run starts, not cementing times.

- ☒ Surface Casing
- ☐ Intermediate Casing
- ☐ Production Casing
- ☐ Liner
- ☐ Other

RECEIVED

FEB 25 2013

DIV. OF OIL, GAS & MINING

Date/Time 2/26/13 06:00 AM ☒ PM ☐

BOPE

- ☒ Initial BOPE test at surface casing point
- ☐ BOPE test at intermediate casing point
- ☐ 30 day BOPE test
- ☐ Other

Date/Time 2/26/13 18:00 AM ☐ PM ☒

Remarks RUN SURFACE CSG & CMT/BOPE TEST

BLM - Vernal Field Office - Notification Form

Operator Bill Barrett Corporation Rig Name/# SST RIG 17  
Submitted By CECIL E. CROW Phone Number 435-322-0493  
Well Name/Number 5-21D-46 LC TRIBAL  
Qtr/Qtr SW/NW Section 21 Township 74S Range 6W  
Lease Serial Number 14-20-H6-6108  
API Number 43013336580000

Spud Notice – Spud is the initial spudding of the well, not drilling out below a casing string.

Date/Time \_\_\_\_\_ AM ☐ PM ☐

Casing – Please report time casing run starts, not cementing times.

- ☐ Surface Casing
- ☐ Intermediate Casing
- ☒ Production Casing
- ☐ Liner
- ☐ Other

Date/Time 3/7/13 06:00 AM ☒ PM ☐

BOPE

- ☐ Initial BOPE test at surface casing point
- ☐ BOPE test at intermediate casing point
- ☐ 30 day BOPE test
- ☐ Other

RECEIVED

MAR 06 2013

DIV. OF OIL, GAS & MINING

Date/Time 0/0/00 00:00 AM ☐ PM ☐

Remarks RUN PRODUCTION CSG & CMT

<b>STATE OF UTAH</b> DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		FORM 9
<b>SUNDRY NOTICES AND REPORTS ON WELLS</b>  Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.		<b>5. LEASE DESIGNATION AND SERIAL NUMBER:</b> 14-20-H62-6108
		<b>6. IF INDIAN, ALLOTTEE OR TRIBE NAME:</b> UTE
		<b>7. UNIT or CA AGREEMENT NAME:</b>
<b>1. TYPE OF WELL</b> Gas Well		<b>8. WELL NAME and NUMBER:</b> LC TRIBAL 5-21D-46
<b>2. NAME OF OPERATOR:</b> BILL BARRETT CORP		<b>9. API NUMBER:</b> 43013336580000
<b>3. ADDRESS OF OPERATOR:</b> 1099 18th Street Ste 2300 , Denver, CO, 80202		<b>9. FIELD and POOL or WILDCAT:</b> ALTAMONT
<b>4. LOCATION OF WELL</b> <b>FOOTAGES AT SURFACE:</b> 1520 FNL 1199 FWL <b>QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:</b> Qtr/Qtr: SWNW Section: 21 Township: 04.0S Range: 06.0W Meridian: U		<b>COUNTY:</b> DUCHESNE
		<b>STATE:</b> UTAH

11.

CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION			
<input type="checkbox"/> NOTICE OF INTENT Approximate date work will start:	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> CASING REPAIR	
<input checked="" type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion: 4/2/2013	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> CHANGE WELL NAME	
<input type="checkbox"/> SPUD REPORT Date of Spud:	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> CONVERT WELL TYPE	
<input type="checkbox"/> DRILLING REPORT Report Date:	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> NEW CONSTRUCTION	
	<input type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> PLUG BACK	
	<input checked="" type="checkbox"/> PRODUCTION START OR RESUME	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION	
	<input type="checkbox"/> REPERFORATE CURRENT FORMATION	<input type="checkbox"/> SIDETRACK TO REPAIR WELL	<input type="checkbox"/> TEMPORARY ABANDON	
	<input type="checkbox"/> TUBING REPAIR	<input type="checkbox"/> VENT OR FLARE	<input type="checkbox"/> WATER DISPOSAL	
	<input type="checkbox"/> WATER SHUTOFF	<input type="checkbox"/> SI TA STATUS EXTENSION	<input type="checkbox"/> APD EXTENSION	
	<input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> OTHER	OTHER: <input type="text"/>	

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

This well had first gas sales on 4/2/13.

**Accepted by the**  
**Utah Division of**  
**Oil, Gas and Mining**  
**FOR RECORD ONLY**  
 April 04, 2013

<b>NAME (PLEASE PRINT)</b> Venessa Langmacher	<b>PHONE NUMBER</b> 303 312-8172	<b>TITLE</b> Senior Permit Analyst
<b>SIGNATURE</b> N/A		<b>DATE</b> 4/4/2013

<b>STATE OF UTAH</b> DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		<b>FORM 9</b>
<b>SUNDRY NOTICES AND REPORTS ON WELLS</b>  Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.		<b>5. LEASE DESIGNATION AND SERIAL NUMBER:</b> 14-20-H62-6108
<b>1. TYPE OF WELL</b> Gas Well		<b>6. IF INDIAN, ALLOTTEE OR TRIBE NAME:</b> UTE
<b>2. NAME OF OPERATOR:</b> BILL BARRETT CORP		<b>7. UNIT or CA AGREEMENT NAME:</b>
<b>3. ADDRESS OF OPERATOR:</b> 1099 18th Street Ste 2300 , Denver, CO, 80202		<b>8. WELL NAME and NUMBER:</b> LC TRIBAL 5-21D-46
<b>4. LOCATION OF WELL</b> <b>FOOTAGES AT SURFACE:</b> 1520 FNL 1199 FWL <b>QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:</b> Qtr/Qtr: SWNW Section: 21 Township: 04.0S Range: 06.0W Meridian: U		<b>9. API NUMBER:</b> 43013336580000
<b>PHONE NUMBER:</b> 303 312-8164 Ext		<b>9. FIELD and POOL or WILDCAT:</b> ALTAMONT
<b>COUNTY:</b> DUCHESNE		<b>STATE:</b> UTAH

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION			
<input type="checkbox"/> NOTICE OF INTENT Approximate date work will start:	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> CASING REPAIR	
<input type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion:	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> CHANGE WELL NAME	
<input type="checkbox"/> SPUD REPORT Date of Spud:	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> CONVERT WELL TYPE	
<input checked="" type="checkbox"/> DRILLING REPORT Report Date: 3/1/2013	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> NEW CONSTRUCTION	
	<input type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> PLUG BACK	
	<input type="checkbox"/> PRODUCTION START OR RESUME	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION	
	<input type="checkbox"/> REPERFORATE CURRENT FORMATION	<input type="checkbox"/> SIDETRACK TO REPAIR WELL	<input type="checkbox"/> TEMPORARY ABANDON	
	<input type="checkbox"/> TUBING REPAIR	<input type="checkbox"/> VENT OR FLARE	<input type="checkbox"/> WATER DISPOSAL	
	<input type="checkbox"/> WATER SHUTOFF	<input type="checkbox"/> SI TA STATUS EXTENSION	<input type="checkbox"/> APD EXTENSION	
	<input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> OTHER	OTHER: <input style="width: 100px;" type="text"/>	

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.  
 Attached is the March 2013 Drilling Activity for this well.

Accepted by the  
 Utah Division of  
 Oil, Gas and Mining  
**FOR RECORD ONLY**  
 April 17, 2013

<b>NAME (PLEASE PRINT)</b> Brady Riley	<b>PHONE NUMBER</b> 303 312-8115	<b>TITLE</b> Permit Analyst
<b>SIGNATURE</b> N/A	<b>DATE</b> 4/5/2013	

**5-21D-46 LC Tribal 3/1/2013 06:00 - 3/2/2013 06:00**

API/UWI 43013336580000	State/Province Utah	County Duchesne	Field Name Brundage Canyon/Lake Canyon	Well Status PRODUCING	Total Depth (ftKB) 7,392.0	Primary Job Type Drilling/Completion
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**Time Log**

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	8.50	14:30	2	DRILL ACTUAL	DRILL ACTUAL/ 2,980'-3,583'/ WOB 15K-18K/PUMP #1 100 / PUMP #2 0/ ROT RPM 45/ BIT RPM 48/ ROP 70.94
14:30	0.50	15:00	7	LUBRICATE RIG	RIG SERVICE
15:00	4.00	19:00	2	DRILL ACTUAL	DRILL ACTUAL/ 3,583'-3,980'/ WOB 20K-25K/PUMP #1 65 / PUMP #2 65/ ROT RPM 45/ BIT RPM 62/ ROP 99.25
19:00	3.50	22:30	5	COND MUD & CIRC	LOST FLOW & 150BBLS/ BUILD VOL. TO 40% L.C.M.
22:30	7.50	06:00	2	DRILL ACTUAL	DRILL ACTUAL/ 3,980'-4,550'/ WOB 20K-25K/PUMP #1 0 / PUMP #2 100/ ROT RPM 45/ BIT RPM 48/ ROP 76.00

**5-21D-46 LC Tribal 3/2/2013 06:00 - 3/3/2013 06:00**

API/UWI 43013336580000	State/Province Utah	County Duchesne	Field Name Brundage Canyon/Lake Canyon	Well Status PRODUCING	Total Depth (ftKB) 7,392.0	Primary Job Type Drilling/Completion
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**Time Log**

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	7.50	13:30	2	DRILL ACTUAL	DRILL ACTUAL/ 4,550'-4,907'/ WOB 20K-25K/PUMP #1 0 / PUMP #2 100/ ROT RPM 45/ BIT RPM 48/ ROP 47.6
13:30	0.50	14:00	7	LUBRICATE RIG	RIG SERVICE
14:00	16.00	06:00	2	DRILL ACTUAL	DRILL ACTUAL/ 4,907'-5,540'/ WOB 25K-28K/PUMP #1 0 / PUMP #2 100/ ROT RPM 45/ BIT RPM 58/ ROP 39.56

**5-21D-46 LC Tribal 3/3/2013 06:00 - 3/4/2013 06:00**

API/UWI 43013336580000	State/Province Utah	County Duchesne	Field Name Brundage Canyon/Lake Canyon	Well Status PRODUCING	Total Depth (ftKB) 7,392.0	Primary Job Type Drilling/Completion
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**Time Log**

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	8.50	14:30	2	DRILL ACTUAL	DRILL ACTUAL/ 5,540'-5,949'/ WOB 25K-28K/PUMP #1 0 / PUMP #2 120/ ROT RPM 45/ BIT RPM 58/ ROP 48.11
14:30	0.50	15:00	7	LUBRICATE RIG	RIG SERVICE
15:00	15.00	06:00	2	DRILL ACTUAL	DRILL ACTUAL/ 5,949'-6,580'/ WOB 25K-28K/PUMP #1 0 / PUMP #2 120/ ROT RPM 45/ BIT RPM 58/ ROP 42.06

**5-21D-46 LC Tribal 3/4/2013 06:00 - 3/5/2013 06:00**

API/UWI 43013336580000	State/Province Utah	County Duchesne	Field Name Brundage Canyon/Lake Canyon	Well Status PRODUCING	Total Depth (ftKB) 7,392.0	Primary Job Type Drilling/Completion
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**Time Log**

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	6.00	12:00	2	DRILL ACTUAL	DRILL ACTUAL/ 6,580'-6,785'/ WOB 25K-28K/PUMP #1 0 / PUMP #2 120/ ROT RPM 45/ BIT RPM 58/ ROP 34.16
12:00	5.50	17:30	6	TRIPS	PUMP 3-STDs OFF BTM/PUMP SLUG/TOOH W/BIT #2/LD 3-PT REAMERS
17:30	0.50	18:00	20	DIRECTIONAL WORK	CHECK MUD MTR/XO BIT/SCRIBE/ORIENTATE
18:00	2.50	20:30	6	TRIPS	TIH W/ BIT #3 TO 880'/BRK CIRC/THH 3,500' BRK CIRC PACKED OFF STRING
20:30	3.50	00:00	6	TRIPS	TOOH T/UN PLUG STRING
00:00	1.50	01:30	20	DIRECTIONAL WORK	PU BIT, MUD MTR, SCRIBE, ORIENTATE
01:30	4.50	06:00	6	TRIPS	TIH T/1,836'/BRK CIRC PACKED OFF AGAIN/DUMP SUCTION 2-1/2" SAND IN SUCTION PIT/CLEAN PITS & TOOH TO INSPECT DIR. TOOLS/BUILD MUD IN PRE-MIX TO TRANSFER OVER

**5-21D-46 LC Tribal 3/5/2013 06:00 - 3/6/2013 06:00**

API/UWI 43013336580000	State/Province Utah	County Duchesne	Field Name Brundage Canyon/Lake Canyon	Well Status PRODUCING	Total Depth (ftKB) 7,392.0	Primary Job Type Drilling/Completion
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**Time Log**

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	2.50	08:30	6	TRIPS	CLEAN OUT LCM DP & BHA/LD MUD MTR
08:30	5.00	13:30	5	COND MUD & CIRC	CLEAN PITS
13:30	1.00	14:30	20	DIRECTIONAL WORK	MU MUD MTR & DIR. TOOLS/SCRIBE & ORIENTATE/MU BIT
14:30	1.50	16:00	6	TRIPS	TIH TO SHOE
16:00	0.50	16:30	5	COND MUD & CIRC	CIRC BTMS UP
16:30	0.50	17:00	6	TRIPS	TIH 10-STDS
17:00	0.50	17:30	5	COND MUD & CIRC	CIRC SPOT 40% LCM
17:30	1.50	19:00	6	TRIPS	TIH 1- STD OFF BTM 6,694'
19:00	2.00	21:00	5	COND MUD & CIRC	BRK CIRC/BUILD 40% LCM IN ACTIVE
21:00	9.00	06:00	2	DRILL ACTUAL	DRILL ACTUAL/ 6,785'-7,074'/ WOB 25K-28K/PUMP #1 0 / PUMP #2 120/ ROT RPM 45/ BIT RPM 58/ ROP 32.11

**5-21D-46 LC Tribal 3/6/2013 06:00 - 3/7/2013 06:00**

API/UWI 43013336580000	State/Province Utah	County Duchesne	Field Name Brundage Canyon/Lake Canyon	Well Status PRODUCING	Total Depth (ftKB) 7,392.0	Primary Job Type Drilling/Completion
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**Time Log**

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	4.00	10:00	2	DRILL ACTUAL	DRILL ACTUAL/ 7,074'-7,264'/ WOB 25K-28K/PUMP #1 0 / PUMP #2 120/ ROT RPM 45/ BIT RPM 58/ ROP 47.5
10:00	0.50	10:30	7	LUBRICATE RIG	RIG SERVICE
10:30	3.00	13:30	2	DRILL ACTUAL	DRILL ACTUAL/ 7,264'-7,392'/ WOB 25K-28K/PUMP #1 0 / PUMP #2 120/ ROT RPM 45/ BIT RPM 58/ ROP 42.66
13:30	1.00	14:30	5	COND MUD & CIRC	CIRC SWEEPS TO SURFACE
14:30	1.00	15:30	6	TRIPS	WIPER TRIP 10-STDS
15:30	1.00	16:30	5	COND MUD & CIRC	CIRC SWEEPS TO SURFACE
16:30	4.00	20:30	6	TRIPS	TOOH F/OH LOGS/STRAP OUT OF HOLE
20:30	1.00	21:30	20	DIRECTIONAL WORK	LD DIR TOOLS
21:30	6.00	03:30	11	WIRELINE LOGS	PJSM/RU LOGGERS/LOGGERS DEPTH 7,390'/DRILLERS DEPTH 7,392'/RD LOGGERS
03:30	2.50	06:00	6	TRIPS	TIH W/CLEAN UP BIT/BRK CIRC 1,864'/TIH

**5-21D-46 LC Tribal 3/7/2013 06:00 - 3/8/2013 06:00**

API/UWI 43013336580000	State/Province Utah	County Duchesne	Field Name Brundage Canyon/Lake Canyon	Well Status PRODUCING	Total Depth (ftKB) 7,392.0	Primary Job Type Drilling/Completion
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**Time Log**

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	3.50	09:30	6	TRIPS	TIH W/CLEAN UP BIT/BRK CIRC @ 4,000', 6,000', & 7,300'/WASH TO BTM
09:30	1.50	11:00	5	COND MUD & CIRC	CIRC BTMS UP
11:00	5.50	16:30	6	TRIPS	PJSM/LD DP, HWDP, & D.C.
16:30	3.00	19:30	12	RUN CASING & CEMENT	WAIT ON CASING CREW
19:30	8.50	04:00	12	RUN CASING & CEMENT	PKSM/RU CASING CREW/RUN 166 JTS 7,393.66' 5-1/2 P-110 17# 8RD LT&C 8RD Rng3 PRODUCTION CSG, SHOE @ 7,389'/BRK CIRC @ JT # 40/1,842', JT #80/3,626', JT # 120/5,360', & JT #166/7,393'/RD CASING CREW
04:00	1.00	05:00	5	COND MUD & CIRC	CIRC BTMS UP
05:00	1.00	06:00	12	RUN CASING & CEMENT	PJSM/RU HALLIBURTON

**5-21D-46 LC Tribal 3/8/2013 06:00 - 3/8/2013 14:00**

API/UWI 43013336580000	State/Province Utah	County Duchesne	Field Name Brundage Canyon/Lake Canyon	Well Status PRODUCING	Total Depth (ftKB) 7,392.0	Primary Job Type Drilling/Completion
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**Time Log**

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	4.00	10:00	12	RUN CASING & CEMENT	TEST LINES @ 5,000 PSI PUMP 5 BBL H2O SPACER/40BBL SUPER FLUSH/ 10 BBL H2O SPACER/ 565 SKS 231.38 BBLs 1,118.00 CU/FT 11.00PPG 2.32 YEILD 10.64 GAL/SK/620 SKS 156.68BBLs 765.00 CU/FT 13.5PPG 1.42 YEILD 6.65 GAL/SK DISPLACE 170.49 BBLs DISPLACEMENT H2O W/BIOCIDE, FINAL LIFT 1,332 PSI, BUMP PLUG @ 1,900 PSI HELD 3-MIN.FLOATS HELD. GOT CMT RETURNS @ 130 BBLs INTO DISPLACEMENT. LOST RETURNS 158 BBLs INTO DISPLACEMENT LOST 12BBLs/28 BBLs CMT TO SURFACE/RD HALLIBURTON

**Time Log**

Start Time	Dur (hr)	End Time	Code	Category	Com
10:00	2.00	12:00	14	NIPPLE UP B.O.P	ND BOP PU 165K SET SLIPS @ 165K 25K OVER ST. WT.
12:00	2.00	14:00	21	OPEN	CLEAN PITS & RIG DOWN/RELEASE RIG @ 14:00 ON 3/8/2013

**5-21D-46 LC Tribal 3/12/2013 06:00 - 3/13/2013 06:00**

API/UWI 43013336580000	State/Province Utah	County Duchesne	Field Name Brundage Canyon/Lake Canyon	Well Status PRODUCING	Total Depth (ftKB) 7,392.0	Primary Job Type Drilling/Completion
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**Time Log**

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	24.00	06:00	GOP	General Operations	CLEAN CELLAR. CHECK PRESSURE. REMOVE 11" NIGHT CAP. MAKE FINAL CUT. NU 7" 5K TBG HEAD. PRES TEST VOID. GOOD. INSTAL 7" NIGHT CAP.

**5-21D-46 LC Tribal 3/13/2013 06:00 - 3/14/2013 06:00**

API/UWI 43013336580000	State/Province Utah	County Duchesne	Field Name Brundage Canyon/Lake Canyon	Well Status PRODUCING	Total Depth (ftKB) 7,392.0	Primary Job Type Drilling/Completion
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**Time Log**

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	7.00	13:00	LOGG	Logging	MIRU SLB AND FRONTIER. HSM. CHECK PRES. RIH W/ GR/JB. TAG AT 7299'. (FC AT 7342') HAVE 43' FILL. RUN CBL/CCL/GR/TEMP LOG. SHOWING MARKER JTS 6773'-6795', 6121'-6143', AND 4801'-4823'. CMT BOND SHOWING TD-4670' GOOD, 4670'-4550' EXCELLENT, 4550'-4400' GOOD, 4400'-2800' FAIR, 2800'-580' BAD. TOC AT 580'. RAN CBL WITH PRESSURE. RD SLB AND FRONTIER.
13:00	17.00	06:00	GOP	General Operations	BATTERY UNDER CONSTRUCTION.

**5-21D-46 LC Tribal 3/14/2013 06:00 - 3/15/2013 06:00**

API/UWI 43013336580000	State/Province Utah	County Duchesne	Field Name Brundage Canyon/Lake Canyon	Well Status PRODUCING	Total Depth (ftKB) 7,392.0	Primary Job Type Drilling/Completion
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**Time Log**

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	24.00	06:00	GOP	General Operations	BATTERY UNDER CONSTRUCTION

**5-21D-46 LC Tribal 3/15/2013 06:00 - 3/16/2013 06:00**

API/UWI 43013336580000	State/Province Utah	County Duchesne	Field Name Brundage Canyon/Lake Canyon	Well Status PRODUCING	Total Depth (ftKB) 7,392.0	Primary Job Type Drilling/Completion
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**Time Log**

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	24.00	06:00	GOP	General Operations	BATTERY UNDER CONSTRUCTION

**5-21D-46 LC Tribal 3/16/2013 06:00 - 3/17/2013 06:00**

API/UWI 43013336580000	State/Province Utah	County Duchesne	Field Name Brundage Canyon/Lake Canyon	Well Status PRODUCING	Total Depth (ftKB) 7,392.0	Primary Job Type Drilling/Completion
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**Time Log**

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	24.00	06:00	GOP	General Operations	BATTERY UNDER CONSTRUCTION

**5-21D-46 LC Tribal 3/17/2013 06:00 - 3/18/2013 06:00**

API/UWI 43013336580000	State/Province Utah	County Duchesne	Field Name Brundage Canyon/Lake Canyon	Well Status PRODUCING	Total Depth (ftKB) 7,392.0	Primary Job Type Drilling/Completion
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**Time Log**

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	24.00	06:00	GOP	General Operations	BATTERY UNDER CONSTRUCTION

**5-21D-46 LC Tribal 3/18/2013 06:00 - 3/19/2013 06:00**

API/UWI 43013336580000	State/Province Utah	County Duchesne	Field Name Brundage Canyon/Lake Canyon	Well Status PRODUCING	Total Depth (ftKB) 7,392.0	Primary Job Type Drilling/Completion
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**Time Log**

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	24.00	06:00	GOP	General Operations	BATTERY UNDER CONSTRUCTION

**5-21D-46 LC Tribal 3/19/2013 06:00 - 3/20/2013 06:00**

API/UWI 43013336580000	State/Province Utah	County Duchesne	Field Name Brundage Canyon/Lake Canyon	Well Status PRODUCING	Total Depth (ftKB) 7,392.0	Primary Job Type Drilling/Completion
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**Time Log**

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	24.00	06:00	GOP	General Operations	BATTERY UNDER CONSTRUCTION

**5-21D-46 LC Tribal 3/24/2013 06:00 - 3/25/2013 06:00**

API/UWI 43013336580000	State/Province Utah	County Duchesne	Field Name Brundage Canyon/Lake Canyon	Well Status PRODUCING	Total Depth (ftKB) 7,392.0	Primary Job Type Drilling/Completion
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**Time Log**

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	24.00	06:00	GOP	General Operations	Finish Setting Frac Line. Filling Frac Line.

**5-21D-46 LC Tribal 3/25/2013 06:00 - 3/26/2013 06:00**

API/UWI 43013336580000	State/Province Utah	County Duchesne	Field Name Brundage Canyon/Lake Canyon	Well Status PRODUCING	Total Depth (ftKB) 7,392.0	Primary Job Type Drilling/Completion
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**Time Log**

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	24.00	06:00	GOP	General Operations	Set Frac Mandrel, Test. NU Frac Tree, Test. Plumb In FlowBack To Frac Tree, Test FlowBack System. Can't Filling Frac Line.

**5-21D-46 LC Tribal 3/26/2013 06:00 - 3/27/2013 06:00**

API/UWI 43013336580000	State/Province Utah	County Duchesne	Field Name Brundage Canyon/Lake Canyon	Well Status PRODUCING	Total Depth (ftKB) 7,392.0	Primary Job Type Drilling/Completion
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**Time Log**

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	24.00	06:00	GOP	General Operations	Finish Filling Frac Line. HES Set Water Manifold.

**5-21D-46 LC Tribal 3/27/2013 06:00 - 3/28/2013 06:00**

API/UWI 43013336580000	State/Province Utah	County Duchesne	Field Name Brundage Canyon/Lake Canyon	Well Status PRODUCING	Total Depth (ftKB) 7,392.0	Primary Job Type Drilling/Completion
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**Time Log**

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	24.00	06:00	GOP	General Operations	Heat Frac Line. HES Set Mover. Load And Mix Acid.

**5-21D-46 LC Tribal 3/28/2013 06:00 - 3/29/2013 06:00**

API/UWI 43013336580000	State/Province Utah	County Duchesne	Field Name Brundage Canyon/Lake Canyon	Well Status PRODUCING	Total Depth (ftKB) 7,392.0	Primary Job Type Drilling/Completion
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**Time Log**

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	3.50	09:30	LOCL	Lock Wellhead & Secure	WSI And Secured. Wireline Crew Arrive On Location. Hold Safety Meeting. Rig Up Lubricator, Arm Gun.

**Time Log**

Start Time	Dur (hr)	End Time	Code	Category	Com
09:30	1.50	11:00	PFRT	Perforating	RIH With 3 1/8" PJ Omega 3104 Perf. Gun Configured At 120 Degree Phasing, 3 Spf, .36" Penetration Charges, 16 Gms., .44 Dia. Holes. Correlating To HES Dual Spaced Neutron/Spectral Density Dated 03-06-2013 And SLB CBL/CCL Dated 03-13-2013. Found And Correlated To Short Joint At 6,773 - 6,795'. Drop Down To Depth, Perforate Stage 1 CR-5/CR-4A/CR-4 Zone, 6,888 - 7,170'. 54 Holes. POOH. LayDown Gun, Verify All Shots Fired, WSI And Secured.
11:00	2.50	13:30	SRIG	Rig Up/Down	HES Rigging Up
13:30	16.50	06:00	LOCL	Lock Wellhead & Secure	WSI And Secured. SDFD.

**5-21D-46 LC Tribal 3/29/2013 06:00 - 3/30/2013 06:00**

API/UWI 43013336580000	State/Province Utah	County Duchesne	Field Name Brundage Canyon/Lake Canyon	Well Status PRODUCING	Total Depth (ftKB) 7,392.0	Primary Job Type Drilling/Completion
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**Time Log**

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	0.00	06:00	LOCL	Lock Wellhead & Secure	HES Crew On Location At 0400 Hrs., Prime Chemical And Fluid Pumps, Pressure Test To 9000 Psi., Ran QC On Fluid, Looks Good.
06:00	0.00	06:00	SMTG	Safety Meeting	Safety Meeting. Talk About Smoking Area, PPE, Escape And Mustering Areas, Communication, And Red Zone.
06:00	1.25	07:15	FRAC	Frac. Job	Frac Stage 1. Fluid System: Hybor G 16 Open Well, 0 Psi. ICP. BrokeDown At 9.6 Bpm And 2,319 Psi.. Pump 3900 Gals. 15% HCL And 108 Bio Balls, Attempt BallOut. Let Balls Fall. Get Stabilized Injection Of 66.4 Bpm And 3,350 Psi., Get ISIP, 1,473 Psi.. 0.65 Psi./Ft. F.G.. 47/54 Holes. Con't With SlickWater Pad, 48,762 Gals.. Stage Into Hybor Pad, 70.3 Bpm At 2,903 Psi.. On Perfs, 70.2 Bpm At 3,074 Psi., 12,231 Gals. Stage Into 2.0# 20/40 White Prop, 70.2 Bpm At 3,088 Psi.. On Perfs, 70.1 Bpm At 2,766 Psi., 7,856 Gals. Stage Into 3.0# 20/40 White Prop, 70.1 Bpm At 2,737 Psi.. On Perfs, 70.1 Bpm At 2,324 Psi., 24,312 Gals. Stage Into 3.5# 20/40 White Prop, 70.2 Bpm At 2,302 Psi.. On Perfs, 70.2 Bpm At 2,205 Psi., 8,794 Gals. Stage Into 4.0# 20/40 White Prop, 70.1 Bpm At 2,205 Psi.. On Perfs, 70.1 Bpm At 2,100 Psi., 9,319 Gals. Stage Into Flush, Flush 15 Bbls. Over Bottom Perf.. Get ISDP, 1,560 Psi.. 0.67 Psi./Ft. F.G.. WSI And Secured. Total 20/40 White Prop - 150,200# Total Clean - 131,923 Gals.. 3,141 Bbls.. Produced Water - 67,334 Gals.. 2% KCL - 62,512 Gals.. BWTR - 3,306 Bbls. Max. Rate - 70.3 Bpm Avg. Rate - 70.1 Bpm Max. Psi. - 3,084 Psi. Avg. Psi. - 2,386 Psi.
07:15	0.17	07:25	CTUW	W/L Operation	Well Turned Over To WireLine. Pick Up Gun String And CBP Plug Assembly. Equalize To Well Pressure.
07:25	1.08	08:30	PFRT	Perforating	RIH With 3 1/8" PJ Omega 3104 Perf. Gun Configured At 120 Degree Phasing, 3 Spf, .36" Penetration Charges, 16 Gms., .44 Dia. Holes. Correlating To HES Dual Spaced Neutron/Spectral Density Dated 03-06-2013 And SLB CBL/CCL Dated 03-13-2013. Found And Correlated To Short Joint At 6,773 - 6,795'. Drop Down To Depth, Set CBP At 6,878', 1,400 Psi.. Perforate Stage 2 CR-4/CR-3 Zone, 6,657 - 6,865'. 45 Holes. 1,350 Psi.. POOH. LayDown Gun, Verify All Shots Fired, WSI And Secured.
08:30	0.09	08:35	GOP	General Operations	Well Turned Over To HES. Pressure Test To 8500#. Equalize, Open To Well.

**Time Log**

Start Time	Dur (hr)	End Time	Code	Category	Com
08:35	1.17	09:45	FRAC	Frac. Job	<p>Frac Stage 2. Fluid System: Hybor G 16  Open Well, 1,293 Psi. ICP. BrokeDown At 4.7 Bpm And 2,452 Psi..  Pump 3900 Gals. 15% HCL And 90 Bio Balls, Attempt BallOut. Let Balls Fall.  Get Stabilized Injection Of 70.5 Bpm And 3,937 Psi., Get ISIP, 1,608 Psi.. 0.68 Psi./Ft. F.G.. 40/45 Holes.  Con't With SlickWater Pad, 51,641 Gals..  Stage Into Hybor Pad, 70.3 Bpm At 2,994 Psi..  On Perfs, 70.0 Bpm At 3,279 Psi., 13,336 Gals.  Stage Into 2.0# 20/40 White Prop, 70.0 Bpm At 3,283 Psi..  On Perfs, 70.2 Bpm At 2,984 Psi., 7,564 Gals.  Stage Into 3.0# 20/40 White Prop, 70.2 Bpm At 2,957 Psi..  On Perfs, 70.3 Bpm At 2,607 Psi., 28,358 Gals.  Stage Into 3.5# 20/40 White Prop, 70.3 Bpm At 2,440 Psi..  On Perfs, 70.3 Bpm At 2,400 Psi., 8,560 Gals.  Stage Into 4.0# 20/40 White Prop, 70.3 Bpm At 2,394 Psi..  On Perfs, 70.2 Bpm At 2,357 Psi., 9,105 Gals.  Stage Into Flush, Flush 15 Bbls. Over Bottom Perf..  Get ISDP, 1,642 Psi.. 0.68 Psi./Ft. F.G.. WSI And Secured.  Total 20/40 White Prop - 160,100#  Total Clean - 137,476 Gals.. 3,273 Bbls..  Produced Water - 68,482 Gals..  2% KCL - 66,923 Gals..  BWTR - 3,444 Bbls.  Max. Rate - 70.4 Bpm  Avg. Rate - 70.3 Bpm  Max. Psi. - 3,286 Psi.  Avg. Psi. - 2,583 Psi.</p>
09:45	0.17	09:55	CTUW	W/L Operation	Well Turned Over To WireLine. Pick Up Gun String And CBP Plug Assembly. Equalize To Well Pressure.
09:55	1.08	11:00	PFRT	Perforating	<p>RIH With 3 1/8" PJ Omega 3104 Perf. Gun Configured At 120 Degree Phasing, 3 Spf, .36" Penetration Charges, 16 Gms., .44 Dia. Holes. Correlating To HES Dual Spaced Neutron/Spectral Density Dated 03-06-2013 And SLB CBL/CCL Dated 03-13-2013.  Found And Correlated To Short Joint At 6,121 - 6,143'.  Drop Down To Depth, Set CBP At 6,647', 1,400 Psi..  Perforate Stage 3 CR-3/CR-2 Zone, 6,373 - 6,627'. 45 Holes. 1,400 Psi..  POOH. LayDown Gun, Verify All Shots Fired, WSI And Secured.</p>
11:00	0.17	11:10	GOP	General Operations	Well Turned Over To HES. Pressure Test To 8500#. Equalize, Open To Well.
11:10	1.16	12:20	FRAC	Frac. Job	<p>Frac Stage 3. Fluid System: Hybor G 16  Open Well, 1,346 Psi. ICP. BrokeDown At 10.2 Bpm And 2,145 Psi..  Pump 3900 Gals. 15% HCL And 90 Bio Balls, Attempt BallOut. Let Balls Fall.  Get Stabilized Injection Of 70.3 Bpm And 3,511 Psi., Get ISIP, 1,598 Psi.. 0.68 Psi./Ft. F.G.. 40/45 Holes.  Con't With SlickWater Pad, 48,479 Gals..  Stage Into Hybor Pad, 70.0 Bpm At 2,972 Psi..  On Perfs, 70.0 Bpm At 3,125 Psi., 12,199 Gals.  Stage Into 2.0# 20/40 White Prop, 70.1 Bpm At 3,165 Psi..  On Perfs, 70.3 Bpm At 2,863 Psi., 7,259 Gals.  Stage Into 3.0# 20/40 White Prop, 70.3 Bpm At 2,808 Psi..  On Perfs, 70.3 Bpm At 2,555 Psi., 25,878 Gals.  Stage Into 3.5# 20/40 White Prop, 70.4 Bpm At 2,428 Psi..  On Perfs, 70.3 Bpm At 2,370 Psi., 8,557 Gals.  Stage Into 4.0# 20/40 White Prop, 70.3 Bpm At 2,400 Psi..  On Perfs, 70.2 Bpm At 2,365 Psi., 8,412 Gals.  Stage Into Flush, Flush 15 Bbls. Over Bottom Perf..  Get ISDP, 1,646 Psi.. 0.69 Psi./Ft. F.G.. WSI And Secured.  Total 20/40 White Prop - 150,100#  Total Clean - 129,255 Gals.. 3,078 Bbls..  Produced Water - 65,435 Gals..  2% KCL - 62,305 Gals..  BWTR - 3,239 Bbls.  Max. Rate - 70.4 Bpm  Avg. Rate - 70.3 Bpm  Max. Psi. - 3,166 Psi.  Avg. Psi. - 2,537 Psi.</p>
12:20	0.17	12:30	CTUW	W/L Operation	Well Turned Over To WireLine. Pick Up Gun String And CBP Plug Assembly. Equalize To Well Pressure.

**Time Log**

Start Time	Dur (hr)	End Time	Code	Category	Com
12:30	1.00	13:30	PFRT	Perforating	RIH With 3 1/8" PJ Omega 3104 Perf. Gun Configured At 120 Degree Phasing, 3 Spf, .36" Penetration Charges, 16 Gms., .44 Dia. Holes. Correlating To HES Dual Spaced Neutron/Spectral Density Dated 03-06-2013 And SLB CBL/CCL Dated 03-13-2013. Found And Correlated To Short Joint At 6,121 - 6,143'. Drop Down To Depth, Set CBP At 6,360', 1,350 Psi.. Perforate Stage 4 CR-2/Wasatch Zone, 6,101 - 6,350'. 45 Holes. 1,300 Psi.. POOH. LayDown Gun, Verify All Shots Fired, WSI And Secured.
13:30	0.08	13:35	GOP	General Operations	Well Turned Over To HES. Pressure Test To 8500#. Equalize, Open To Well.
13:35	1.08	14:40	FRAC	Frac. Job	Frac Stage 4. Fluid System: Hybor G 16 Open Well, 1,432 Psi. ICP. BrokeDown At 10.0 Bpm And 2,071 Psi.. Pump 3900 Gals. 15% HCL And 90 Bio Balls, Attempt BallOut. Let Balls Fall. Get Stabilized Injection Of 70.3 Bpm And 3,560 Psi., Get ISIP, 1,165 Psi.. 0.63 Psi./Ft. F.G.. 34/45 Holes. Con't With SlickWater Pad, 48,386 Gals.. Stage Into Hybor Pad, 70.6 Bpm At 2,760 Psi.. On Perfs, 70.7 Bpm At 2,938 Psi., 12,196 Gals. Stage Into 2.0# 20/40 White Prop, 71.2 Bpm At 3,007 Psi.. On Perfs, 70.3 Bpm At 2,529 Psi., 6,952 Gals. Stage Into 3.0# 20/40 White Prop, 70.2 Bpm At 2,520 Psi.. On Perfs, 70.4 Bpm At 2,374 Psi., 26,792 Gals. Stage Into 3.5# 20/40 White Prop, 70.3 Bpm At 2,247 Psi.. On Perfs, 70.3 Bpm At 2,180 Psi., 8,040 Gals. Stage Into 4.0# 20/40 White Prop, 70.3 Bpm At 2,161 Psi.. On Perfs, 70.3 Bpm At 2,089 Psi., 9,766 Gals. Stage Into Flush, Flush 15 Bbls. Over Bottom Perf.. Get ISDP, 1,222 Psi.. 0.63 Psi./Ft. F.G.. WSI And Secured. Total 20/40 White Prop - 149,680# Total Clean - 129,728 Gals.. 3,089 Bbls.. Produced Water - 64,028 Gals.. 2% KCL - 62,746 Gals.. BWTR - 3,262 Bbls. Max. Rate - 70.6 Bpm Avg. Rate - 70.3 Bpm Max. Psi. - 3,007 Psi. Avg. Psi. - 2,303 Psi.
14:40	0.17	14:50	CTUW	W/L Operation	Well Turned Over To WireLine. Pick Up Gun String And CBP Plug Assembly. Equalize To Well Pressure.
14:50	1.00	15:50	PFRT	Perforating	RIH With 3 1/8" PJ Omega 3104 Perf. Gun Configured At 120 Degree Phasing, 3 Spf, .36" Penetration Charges, 16 Gms., .44 Dia. Holes. Correlating To HES Dual Spaced Neutron/Spectral Density Dated 03-06-2013 And SLB CBL/CCL Dated 03-13-2013. Found And Correlated To Short Joint At 4,801 - 4,823'. Drop Down To Depth, Set CBP At 6,092', 1,200 Psi.. Perforate Stage 5 UteLand Butte Zone, 5,849 - 6,077'. 45 Holes. 1,000 Psi.. POOH. LayDown Gun, Verify All Shots Fired, WSI And Secured.
15:50	14.17	06:00	LOCL	Lock Wellhead & Secure	WSI And Secured. SDFD.



<b>STATE OF UTAH</b> DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		FORM 9
<b>SUNDRY NOTICES AND REPORTS ON WELLS</b>  Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.		<b>5. LEASE DESIGNATION AND SERIAL NUMBER:</b> 14-20-H62-6108
		<b>6. IF INDIAN, ALLOTTEE OR TRIBE NAME:</b> UTE
<b>1. TYPE OF WELL</b> Gas Well		<b>7. UNIT or CA AGREEMENT NAME:</b>
<b>2. NAME OF OPERATOR:</b> BILL BARRETT CORP		<b>8. WELL NAME and NUMBER:</b> LC TRIBAL 5-21D-46
<b>3. ADDRESS OF OPERATOR:</b> 1099 18th Street Ste 2300 , Denver, CO, 80202		<b>9. API NUMBER:</b> 43013336580000
<b>4. LOCATION OF WELL</b> <b>FOOTAGES AT SURFACE:</b> 1520 FNL 1199 FWL <b>QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:</b> Qtr/Qtr: SWNW Section: 21 Township: 04.0S Range: 06.0W Meridian: U		<b>9. FIELD and POOL or WILDCAT:</b> ALTAMONT
		<b>COUNTY:</b> DUCHESNE
		<b>STATE:</b> UTAH

11.

CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION		
<input type="checkbox"/> NOTICE OF INTENT Approximate date work will start:	<input type="checkbox"/> ACIDIZE  <input type="checkbox"/> CHANGE TO PREVIOUS PLANS  <input type="checkbox"/> CHANGE WELL STATUS  <input type="checkbox"/> DEEPEN  <input type="checkbox"/> OPERATOR CHANGE  <input type="checkbox"/> PRODUCTION START OR RESUME  <input type="checkbox"/> REPERFORATE CURRENT FORMATION  <input type="checkbox"/> TUBING REPAIR  <input type="checkbox"/> WATER SHUTOFF  <input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> ALTER CASING  <input type="checkbox"/> CHANGE TUBING  <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS  <input type="checkbox"/> FRACTURE TREAT  <input type="checkbox"/> PLUG AND ABANDON  <input type="checkbox"/> RECLAMATION OF WELL SITE  <input type="checkbox"/> SIDETRACK TO REPAIR WELL  <input type="checkbox"/> VENT OR FLARE  <input type="checkbox"/> SI TA STATUS EXTENSION  <input type="checkbox"/> OTHER	<input type="checkbox"/> CASING REPAIR  <input type="checkbox"/> CHANGE WELL NAME  <input type="checkbox"/> CONVERT WELL TYPE  <input type="checkbox"/> NEW CONSTRUCTION  <input type="checkbox"/> PLUG BACK  <input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION  <input type="checkbox"/> TEMPORARY ABANDON  <input type="checkbox"/> WATER DISPOSAL  <input type="checkbox"/> APD EXTENSION  OTHER: <input style="width: 100px;" type="text"/>
<input type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion:			
<input type="checkbox"/> SPUD REPORT Date of Spud:			
<input checked="" type="checkbox"/> DRILLING REPORT Report Date: 4/30/2013			

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

Attached is the April 2013 Drilling Activity for this well.

**Accepted by the**  
**Utah Division of**  
**Oil, Gas and Mining**  
**FOR RECORD ONLY**  
 May 03, 2013

<b>NAME (PLEASE PRINT)</b> Brady Riley	<b>PHONE NUMBER</b> 303 312-8115	<b>TITLE</b> Permit Analyst
<b>SIGNATURE</b> N/A		<b>DATE</b> 5/3/2013

**5-21D-46 LC Tribal 4/1/2013 06:00 - 4/2/2013 06:00**

API/UWI 43013336580000	State/Province Utah	County Duchesne	Field Name Brundage Canyon/Lake Canyon	Well Status PRODUCING	Total Depth (ftKB) 7,392.0	Primary Job Type Drilling/Completion
---------------------------	------------------------	--------------------	---	--------------------------	-------------------------------	---

**Time Log**

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	1.00	07:00	CTRL	Crew Travel	CREW TRAVEL. HSM.
07:00	1.50	08:30	GOP	General Operations	WELL FLOWED TO PROD OVERNIGHT. FLOWED 1020 BBLS ON 22/64 CHOKE, FCP 400 PSI. OPEN TO FBT AND RIH TO TAG. RU PWR SWIVEL.
08:30	7.00	15:30	DOPG	Drill Out Plugs	EST CIRC AND D/O PLUGS.  CBP #4 AT 6092'. C/O 10' SAND. D/O IN 7 MIN. FCP 500. CBP #5 AT 6360'. C/O 10' SAND. D/O IN 10 MIN. FCP 500. CBP #6 AT 6647'. C/O 16' SAND. D/O IN 9 MIN. FCP 450. CBP #7 AT 6878'. C/O 35' SAND. D/O IN 10 MIN. FCP 450. PBDT AT 7342'. C/O 280' SAND TO FC W/ 229-JTS IN.  CIRC CLEAN FOR 2-1/2 HRS. RD PWR SWIVEL.
15:30	1.00	16:30	PULT	Pull Tubing	POOH AS LD 61-JTS TBG. PU 7" 5K TBG HANGER. LUBE IN AND LAND 168-JTS TBG.  TBG DETAIL KB 15.00 7" 5K HANGER 167-JTS 2-7/8" TBG 2.31 XN 1 JT 2-7/8" TBG POBS
16:30	1.50	18:00	GOP	General Operations	RD FLOOR. ND BOP. NU WH. POBS AT 1800 PSI. TURN WELL OVER TO PRODUCTION. RDSU. RACK OUT EQUIP.
18:00	12.00	06:00	FBCK	Flowback Well	CREW TRAVEL. WELL FLOWING TO PRODUCTION AND SALES.

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

RECEIVED

FEB 14 2013

FORM APPROVED  
OMB NO. 1004-0135  
Expires: July 31, 2010

**SUNDRY NOTICES AND REPORTS ON WELLS**  
*Do not use this form for proposals to drill or to re-enter an abandoned well. Use form 3160-3 (APD) for such proposals.*

BLM

**SUBMIT IN TRIPLICATE - Other instructions on reverse side.**

5. Lease Serial No.  
1420H626108

6. If Indian, Allottee or Tribe Name

7. If Unit or CA/Agreement, Name and/or No.

8. Well Name and No.  
LC TRIBAL 5-21D-46

9. API Well No.  
43-013-33658

10. Field and Pool, or Exploratory  
ALTAMONT

11. County or Parish, and State  
DUCHESNE COUNTY, UT

1. Type of Well

☒ Oil Well ☐ Gas Well ☐ Other

2. Name of Operator  
BILL BARRETT CORPORATION

Contact: VENESSA LANGMACHER  
E-Mail: vlangmacher@billbarrettcorp.com

3a. Address  
1099 18TH STREET SUITE 2300  
DENVER, CO 80202

3b. Phone No. (include area code)  
Ph: 303-312-8172  
Fx: 303-291-0420

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)

Sec 21 T4S R6W Mer UBM SWNW 1520FNL 1199FWL

**12. CHECK APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA**

TYPE OF SUBMISSION	TYPE OF ACTION			
<input checked="" type="checkbox"/> Notice of Intent	<input type="checkbox"/> Acidize	<input type="checkbox"/> Deepen	<input type="checkbox"/> Production (Start/Resume)	<input type="checkbox"/> Water Shut-Off
<input type="checkbox"/> Subsequent Report	<input type="checkbox"/> Alter Casing	<input type="checkbox"/> Fracture Treat	<input type="checkbox"/> Reclamation	<input type="checkbox"/> Well Integrity
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Casing Repair	<input type="checkbox"/> New Construction	<input type="checkbox"/> Recomplete	<input checked="" type="checkbox"/> Other
	<input type="checkbox"/> Change Plans	<input type="checkbox"/> Plug and Abandon	<input type="checkbox"/> Temporarily Abandon	
	<input type="checkbox"/> Convert to Injection	<input type="checkbox"/> Plug Back	<input type="checkbox"/> Water Disposal	

13. Describe Proposed or Completed Operation (clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recompleat horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports shall be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompleat in a new interval, a Form 3160-4 shall be filed once testing has been completed. Final Abandonment Notices shall be filed only after all requirements, including reclamation, have been completed, and the operator has determined that the site is ready for final inspection.)

BBC requests an extension for the subject APD. This well is scheduled to spud on 4/26/2013.

MAY 09 2013

CONDITIONS OF APPROVAL ATTACHED

VERNAL FIELD OFFICE  
ENG. RHH 4/22/13  
GEOL. \_\_\_\_\_  
E.S. \_\_\_\_\_  
PET. \_\_\_\_\_  
RECL. \_\_\_\_\_

14. I hereby certify that the foregoing is true and correct.

Electronic Submission #198975 verified by the BLM Well Information System  
For BILL BARRETT CORPORATION, sent to the Vernal  
Committed to AFMSS for processing by BOBBI SCHROEDER on 03/13/2013 ()

Name (Printed/Typed) VENESSA LANGMACHER

Title SR PERMIT ANALYST

Signature (Electronic Submission)

Date 02/14/2013

**THIS SPACE FOR FEDERAL OR STATE OFFICE USE**

Approved By

*[Signature]*

Title

Assistant Field Manager  
Lands & Mineral Resources

APR 22 2013  
Date

Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Office

VERNAL FIELD OFFICE

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

UDOGM

\*\* OPERATOR-SUBMITTED \*\* OPERATOR-SUBMITTED \*\* OPERATOR-SUBMITTED \*\*

2B KNOTT HOUSE

# **CONDITIONS OF APPROVAL**

## **Bill Barrett Corporation**

### **Notice of Intent APD Extension**

**Lease:** 1420H626108  
**Well:** LC Tribal 5-21D-46  
**Location:** SWNW Sec 21-T4S-R6W

An extension for the referenced APD is granted with the following conditions:

---

1. The extension and APD shall expire on 03/16/2015.
2. No other extension shall be granted.

If you have any other questions concerning this matter, please contact Robin L Hansen of this office at (435) 781-2777

<b>STATE OF UTAH</b> DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		<b>FORM 9</b>																														
<b>SUNDRY NOTICES AND REPORTS ON WELLS</b>  Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.		<b>5. LEASE DESIGNATION AND SERIAL NUMBER:</b> 14-20-H62-6108																														
<b>1. TYPE OF WELL</b> Gas Well		<b>6. IF INDIAN, ALLOTTEE OR TRIBE NAME:</b> UTE																														
<b>2. NAME OF OPERATOR:</b> BILL BARRETT CORP		<b>7. UNIT or CA AGREEMENT NAME:</b>																														
<b>3. ADDRESS OF OPERATOR:</b> 1099 18th Street Ste 2300 , Denver, CO, 80202		<b>8. WELL NAME and NUMBER:</b> LC TRIBAL 5-21D-46																														
<b>4. LOCATION OF WELL</b> <b>FOOTAGES AT SURFACE:</b> 1520 FNL 1199 FWL <b>QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:</b> Qtr/Qtr: SWNW Section: 21 Township: 04.0S Range: 06.0W Meridian: U		<b>9. API NUMBER:</b> 43013336580000																														
<b>PHONE NUMBER:</b> 303 312-8134 Ext		<b>9. FIELD and POOL or WILDCAT:</b> ALTAMONT																														
<b>COUNTY:</b> DUCHESNE		<b>STATE:</b> UTAH																														
<b>11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA</b>																																
<b>TYPE OF SUBMISSION</b>  <input checked="" type="checkbox"/> <b>NOTICE OF INTENT</b> Approximate date work will start: <b>6/29/2013</b>  <input type="checkbox"/> <b>SUBSEQUENT REPORT</b> Date of Work Completion:  <input type="checkbox"/> <b>SPUD REPORT</b> Date of Spud:  <input type="checkbox"/> <b>DRILLING REPORT</b> Report Date:	<b>TYPE OF ACTION</b>  <table style="width: 100%;"> <tr> <td><input type="checkbox"/> ACIDIZE</td> <td><input type="checkbox"/> ALTER CASING</td> <td><input type="checkbox"/> CASING REPAIR</td> </tr> <tr> <td><input type="checkbox"/> CHANGE TO PREVIOUS PLANS</td> <td><input type="checkbox"/> CHANGE TUBING</td> <td><input type="checkbox"/> CHANGE WELL NAME</td> </tr> <tr> <td><input type="checkbox"/> CHANGE WELL STATUS</td> <td><input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS</td> <td><input type="checkbox"/> CONVERT WELL TYPE</td> </tr> <tr> <td><input type="checkbox"/> DEEPEN</td> <td><input type="checkbox"/> FRACTURE TREAT</td> <td><input type="checkbox"/> NEW CONSTRUCTION</td> </tr> <tr> <td><input type="checkbox"/> OPERATOR CHANGE</td> <td><input type="checkbox"/> PLUG AND ABANDON</td> <td><input type="checkbox"/> PLUG BACK</td> </tr> <tr> <td><input type="checkbox"/> PRODUCTION START OR RESUME</td> <td><input type="checkbox"/> RECLAMATION OF WELL SITE</td> <td><input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION</td> </tr> <tr> <td><input type="checkbox"/> REPERFORATE CURRENT FORMATION</td> <td><input type="checkbox"/> SIDETRACK TO REPAIR WELL</td> <td><input type="checkbox"/> TEMPORARY ABANDON</td> </tr> <tr> <td><input type="checkbox"/> TUBING REPAIR</td> <td><input type="checkbox"/> VENT OR FLARE</td> <td><input type="checkbox"/> WATER DISPOSAL</td> </tr> <tr> <td><input type="checkbox"/> WATER SHUTOFF</td> <td><input type="checkbox"/> SI TA STATUS EXTENSION</td> <td><input type="checkbox"/> APD EXTENSION</td> </tr> <tr> <td><input type="checkbox"/> WILDCAT WELL DETERMINATION</td> <td><input checked="" type="checkbox"/> OTHER</td> <td>OTHER: <input style="width: 100px;" type="text" value="EcoSeal"/></td> </tr> </table>		<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> CASING REPAIR	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> CHANGE WELL NAME	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> CONVERT WELL TYPE	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> NEW CONSTRUCTION	<input type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> PLUG BACK	<input type="checkbox"/> PRODUCTION START OR RESUME	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION	<input type="checkbox"/> REPERFORATE CURRENT FORMATION	<input type="checkbox"/> SIDETRACK TO REPAIR WELL	<input type="checkbox"/> TEMPORARY ABANDON	<input type="checkbox"/> TUBING REPAIR	<input type="checkbox"/> VENT OR FLARE	<input type="checkbox"/> WATER DISPOSAL	<input type="checkbox"/> WATER SHUTOFF	<input type="checkbox"/> SI TA STATUS EXTENSION	<input type="checkbox"/> APD EXTENSION	<input type="checkbox"/> WILDCAT WELL DETERMINATION	<input checked="" type="checkbox"/> OTHER	OTHER: <input style="width: 100px;" type="text" value="EcoSeal"/>
<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> CASING REPAIR																														
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<input type="checkbox"/> WILDCAT WELL DETERMINATION	<input checked="" type="checkbox"/> OTHER	OTHER: <input style="width: 100px;" type="text" value="EcoSeal"/>																														
<b>12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.</b> Bill Barrett Corporation (BBC) is requesting an expedited approval of the use of EcoSeal (dehydrated densified saw dust) in a pit closure. EcoSeal will be used to absorb moisture and stabilize pit contents. The mixed material will be capped with a minimum of two feet of native soil upon completion.																																
<b>Accepted by the Utah Division of Oil, Gas and Mining</b>  <b>Date:</b> July 03, 2013 <b>By:</b>																																
<b>NAME (PLEASE PRINT)</b> Venessa Langmacher	<b>PHONE NUMBER</b> 303 312-8172	<b>TITLE</b> Senior Permit Analyst																														
<b>SIGNATURE</b> N/A	<b>DATE</b> 6/27/2013																															

Form 3160-4  
(August 2007)UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENTFORM APPROVED  
OMB No. 1004-0137  
Expires: July 31, 2010

## WELL COMPLETION OR RECOMPLETION REPORT AND LOG

1a. Type of Well <input checked="" type="checkbox"/> Oil Well <input type="checkbox"/> Gas Well <input type="checkbox"/> Dry <input type="checkbox"/> Other b. Type of Completion <input checked="" type="checkbox"/> New Well <input type="checkbox"/> Work Over <input type="checkbox"/> Deepen <input type="checkbox"/> Plug Back <input type="checkbox"/> Diff. Resvr. Other _____				5. Lease Serial No. 1420H626108	
2. Name of Operator BILL BARRETT CORPORATION      Contact: CHRISTINA HIRTLE E-Mail: chirtler@billbarrettcorp.com				6. If Indian, Allottee or Tribe Name  7. Unit or CA Agreement Name and No.	
3. Address 1099 18TH STREET SUITE 2300 DENVER, CO 80202			3a. Phone No. (include area code) Ph: 303-312-8597		8. Lease Name and Well No. LC TRIBAL 5-21D-46
4. Location of Well (Report location clearly and in accordance with Federal requirements)*  At surface SWNW 1520FNL 1199FWL  At top prod interval reported below SWNW 2000FNL 818FWL  At total depth SWNW 2031FNL 819FWL				9. API Well No. 43-013-33658	
14. Date Spudded 02/15/2013				15. Date T.D. Reached 03/08/2013	
16. Date Completed <input type="checkbox"/> D & A <input checked="" type="checkbox"/> Ready to Prod. 04/02/2013				10. Field and Pool, or Exploratory ALTAMONT  11. Sec., T., R., M., or Block and Survey or Area Sec 21 T4S R6W Mer UBM  12. County or Parish DUCHESENE      13. State UT	
17. Elevations (DF, KB, RT, GL)* 7100 GL		18. Total Depth: MD 7392 TVD 7316      19. Plug Back T.D.: MD 7343 TVD 7267      20. Depth Bridge Plug Set: MD TVD			
21. Type Electric & Other Mechanical Logs Run (Submit copy of each) CBL,GR,CCL,MUD				22. Was well cored? <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes (Submit analysis) Was DST run? <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes (Submit analysis) Directional Survey? <input type="checkbox"/> No <input checked="" type="checkbox"/> Yes (Submit analysis)	

## 23. Casing and Liner Record (Report all strings set in well)

Hole Size	Size/Grade	Wt. (#/ft.)	Top (MD)	Bottom (MD)	Stage Cementer Depth	No. of Sk. & Type of Cement	Slurry Vol. (BBL)	Cement Top*	Amount Pulled
26.000	16.000 COND	65.0	0	80	80				
12.250	9.625 J-55	36.0	0	1807	1807	500	202	0	
8.750	5.500 P-110	17.0	0	7392	7389	1185	392	1180	

## 24. Tubing Record

Size	Depth Set (MD)	Packer Depth (MD)	Size	Depth Set (MD)	Packer Depth (MD)	Size	Depth Set (MD)	Packer Depth (MD)
2.875	7240							

## 25. Producing Intervals

Formation	Top	Bottom	Perforated Interval	Size	No. Holes	Perf. Status
A) GREEN RIVER	5366	7170	5366 TO 7170	0.380	315	OPEN
B)						
C)						
D)						

## 26. Perforation Record

## 27. Acid, Fracture, Treatment, Cement Squeeze, Etc.

Depth Interval	Amount and Type of Material
5366 TO 7170	SEE ATTACHED STAGES 1-7

## 28. Production - Interval A

Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
04/02/2013	04/04/2013	24	→	328.0	193.0	459.0	52.0		FLows FROM WELL
Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas:Oil Ratio	Well Status	
24/64	250	400.0	→	328	193	459	588	POW	

## 28a. Production - Interval B

Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
			→						
Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas:Oil Ratio	Well Status	
			→						

(See Instructions and spaces for additional data on reverse side)

ELECTRONIC SUBMISSION #206571 VERIFIED BY THE BLM WELL INFORMATION SYSTEM

\*\* OPERATOR-SUBMITTED \*\* OPERATOR-SUBMITTED \*\* OPERATOR-SUBMITTED \*\*



## 28b. Production - Interval C

Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
			→						
Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas:Oil Ratio	Well Status	
			→						

## 28c. Production - Interval D

Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
			→						
Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas:Oil Ratio	Well Status	
			→						

## 29. Disposition of Gas(Sold, used for fuel, vented, etc.)

SOLD

## 30. Summary of Porous Zones (Include Aquifers):

Show all important zones of porosity and contents thereof: Cored intervals and all drill-stem tests, including depth interval tested, cushion used, time tool open, flowing and shut-in pressures and recoveries.

## 31. Formation (Log) Markers

Formation	Top	Bottom	Descriptions, Contents, etc.	Name	Top
					Meas. Depth
				GREEN RIVER	1910
				MAHOGANY	2454
				TGR3	3733
				DOUGLAS CREEK	4557
				BLACK SHALE	5375
				CASTLE PEAK	5522
				UTELAND BUTTE	5860

## 32. Additional remarks (include plugging procedure):

TOC was calculated by CBL. Conductor cemented with grout. Attached is Treatment data, Logs, and End of Well Report. First Gas Sales were on 4/2/2013 first oil sales were on 4/8/2013.

## 33. Circle enclosed attachments:

- |   |                    |               |                       |
|---|--------------------|---------------|-----------------------|
| 1. Electrical/Mechanical Logs (1 full set req'd.)     | 2. Geologic Report | 3. DST Report | 4. Directional Survey |
| 5. Sundry Notice for plugging and cement verification | 6. Core Analysis   | 7 Other:      |                       |

## 34. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records (see attached instructions):

Electronic Submission #206571 Verified by the BLM Well Information System.  
For BILL BARRETT CORPORATION, sent to the Vernal

Name (please print) CHRISTINA HIRTLE

Title ADMINISTRATIVE ASSISTANT

Signature (Electronic Submission)

Date 05/08/2013

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

\*\* ORIGINAL \*\* ORIGINAL \*\* ORIGINAL \*\* ORIGINAL \*\* ORIGINAL \*\* ORIGINAL \*\* ORIGINAL \*\*

## LC Tribal 5-21D-46 Completion Report Continued\*

44. ACID, FRACTURE, TREATMENT, CEMENT SQUEEZE, ETC. (cont.)			
AMOUNT AND TYPE OF MATERIAL			
<u>Stage</u>	<u>BBS Slurry</u>	<u>Gal 15% FE Acid</u>	<u>Lbs 20/40 White Sand</u>
1	1358		150100
2	1448		160100
3	1355		150100
4	1389		149680
5	517	15115 w/ 90 Balls	
6	509	15019 w/ 90 Balls	
7	506	15000 w/ 90 Balls	

\*Depth intervals for frac information same as perforation record intervals.

# **BILL BARRETT CORPORATION**

UTAH (DUCHESNE COUNTY -NAD 83)

SEC. 21T4S R6W U.S.B & M

LC TRIBAL #5-21D-46

ORIGINAL WELLBORE

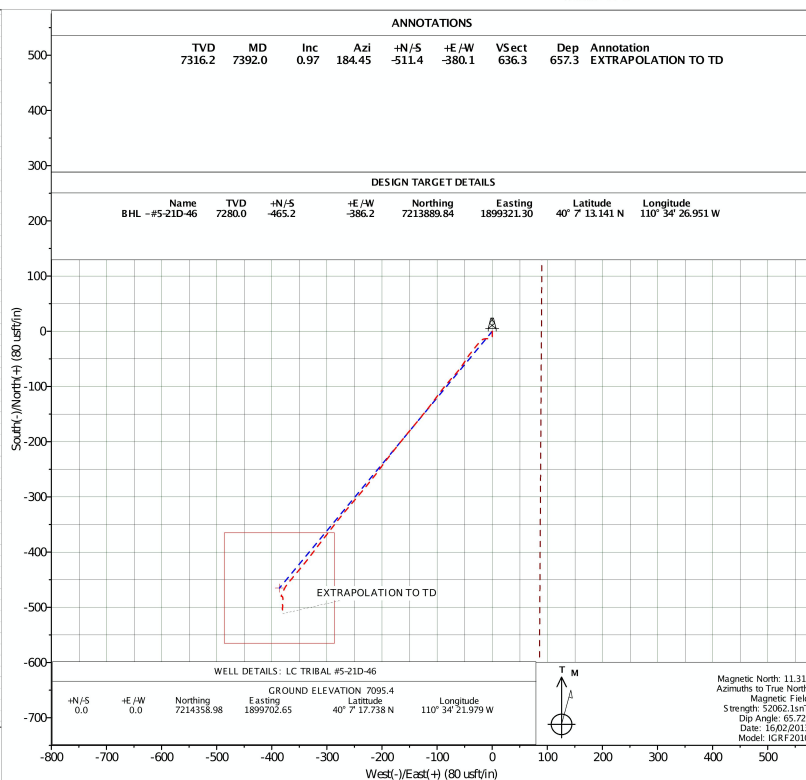
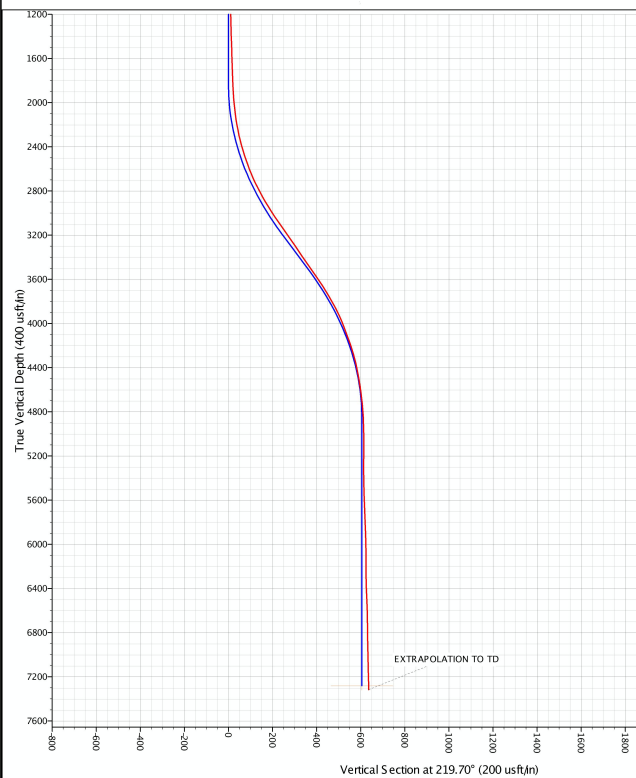
07 March, 2013

Survey: FINAL SURVEYS





Project: UTAH (DUCHESNE COUNTY -NAD 83)  
Site: SEC. 21 T4S R6W U.S.B & M  
Well: LC TRIBAL #5-21D-46  
Wellbore: ORIGINAL WELLBORE  
Design: FINAL SURVEYS



## Survey Report



<b>Company:</b>	BILL BARRETT CORPORATION	<b>Local Co-ordinate Reference:</b>	Well LC TRIBAL #5-21D-46
<b>Project:</b>	UTAH (DUCHESNE COUNTY - NAD	<b>TVD Reference:</b>	KB @ 7110.0usft (SST 17)
<b>Site:</b>	SEC. 21 T4S R6W U.S.B & M	<b>MD Reference:</b>	KB @ 7110.0usft (SST 17)
<b>Well:</b>	LC TRIBAL #5-21D-46	<b>North Reference:</b>	True
<b>Wellbore:</b>	ORIGINAL WELLBORE	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Design:</b>	FINAL SURVEYS	<b>Database:</b>	EDM 5000.1 Single User Db

<b>Project</b>	UTAH (DUCHESNE COUNTY - NAD 83)		
<b>Map System:</b>	US State Plane 1983	<b>System Datum:</b>	Mean Sea Level
<b>Geo Datum:</b>	North American Datum 1983		
<b>Map Zone:</b>	Utah Central Zone		Using geodetic scale factor

<b>Site</b>	SEC. 21 T4S R6W U.S.B & M		
<b>Site Position:</b>		<b>Northing:</b>	7,214,358.98 usft
<b>From:</b>	Lat/Long	<b>Easting:</b>	1,899,702.65 usft
<b>Position Uncertainty:</b>	0.0 usft	<b>Slot Radius:</b>	13-3/16"
		<b>Latitude:</b>	40° 7' 17.738 N
		<b>Longitude:</b>	110° 34' 21.979 W
		<b>Grid Convergence:</b>	0.59 °

<b>Well</b>	LC TRIBAL #5-21D-46		
<b>Well Position</b>	+N/S	0.0 usft	<b>Northing:</b> 7,214,358.98 usft
	+E/W	0.0 usft	<b>Easting:</b> 1,899,702.65 usft
<b>Position Uncertainty</b>	0.0 usft	<b>Wellhead Elevation:</b>	usft
		<b>Latitude:</b>	40° 7' 17.738 N
		<b>Longitude:</b>	110° 34' 21.979 W
		<b>Ground Level:</b>	7,095.4 usft

<b>Wellbore</b>	ORIGINAL WELLBORE				
<b>Magnetics</b>	<b>Model Name</b>	<b>Sample Date</b>	<b>Declination (°)</b>	<b>Dip Angle (°)</b>	<b>Field Strength (nT)</b>
	IGRF2010	16/02/2013	11.31	65.72	52,062

<b>Design</b>	FINAL SURVEYS			
<b>Audit Notes:</b>				
<b>Version:</b>	1.0	<b>Phase:</b>	ACTUAL	<b>Tie On Depth:</b> 0.0
<b>Vertical Section:</b>	<b>Depth From (TVD) (usft)</b>	<b>+N/S (usft)</b>	<b>+E/W (usft)</b>	<b>Direction (°)</b>
	0.0	0.0	0.0	219.70

<b>Survey Program</b>	<b>Date</b>	07/03/2013		
<b>From (usft)</b>	<b>To (usft)</b>	<b>Survey (Wellbore)</b>	<b>Tool Name</b>	<b>Description</b>
146.0	7,392.0	FINAL SURVEYS (ORIGINAL WELLBORI	MWD	MWD -S standard

<b>Survey</b>										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	Subsea Depth (usft)	+N/S (usft)	+E/W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
0.0	0.00	0.00	0.0	7,110.0	0.0	0.0	0.0	0.00	0.00	0.00
146.0	0.31	163.01	146.0	6,964.0	-0.4	0.1	0.2	0.21	0.21	0.00
240.0	0.44	176.02	240.0	6,870.0	-1.0	0.2	0.6	0.16	0.14	13.84
301.0	0.62	171.89	301.0	6,809.0	-1.5	0.3	1.0	0.30	0.30	-6.77
422.0	0.70	190.61	422.0	6,688.0	-2.9	0.2	2.1	0.19	0.07	15.47
541.0	0.70	177.51	541.0	6,569.0	-4.4	0.1	3.3	0.13	0.00	-11.01
633.0	0.83	174.44	633.0	6,477.0	-5.6	0.2	4.2	0.15	0.14	-3.34
722.0	0.97	180.24	722.0	6,388.0	-7.0	0.3	5.2	0.19	0.16	6.52
813.0	0.75	169.86	812.9	6,297.1	-8.3	0.4	6.2	0.30	-0.24	-11.41
908.0	0.62	199.92	907.9	6,202.1	-9.4	0.3	7.1	0.40	-0.14	31.64
1,003.0	0.57	212.49	1,002.9	6,107.1	-10.3	-0.1	8.0	0.15	-0.05	13.23
1,098.0	0.75	226.64	1,097.9	6,012.1	-11.1	-0.8	9.1	0.25	0.19	14.89
1,193.0	0.70	230.07	1,192.9	5,917.1	-11.9	-1.7	10.3	0.07	-0.05	3.61



## Survey Report



<b>Company:</b>	BILL BARRETT CORPORATION	<b>Local Co-ordinate Reference:</b>	Well LC TRIBAL #5-21D-46
<b>Project:</b>	UTAH (DUCHESNE COUNTY - NAD	<b>TVD Reference:</b>	KB @ 7110.0usft (SST 17)
<b>Site:</b>	SEC. 21 T4S R6W U.S.B & M	<b>MD Reference:</b>	KB @ 7110.0usft (SST 17)
<b>Well:</b>	LC TRIBAL #5-21D-46	<b>North Reference:</b>	True
<b>Wellbore:</b>	ORIGINAL WELLBORE	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Design:</b>	FINAL SURVEYS	<b>Database:</b>	EDM 5000.1 Single User Db

Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	Subsea Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
1,287.0	0.57	250.11	1,286.9	5,823.1	-12.5	-2.6	11.2	0.27	-0.14	21.32
1,383.0	0.79	246.33	1,382.9	5,727.1	-12.9	-3.7	12.3	0.23	0.23	-3.94
1,475.0	1.01	250.99	1,474.9	5,635.1	-13.4	-5.0	13.5	0.25	0.24	5.07
1,570.0	1.63	272.70	1,569.9	5,540.1	-13.6	-7.1	15.0	0.83	0.65	22.85
1,665.0	1.71	269.80	1,664.8	5,445.2	-13.6	-9.9	16.8	0.12	0.08	-3.05
1,747.0	1.27	269.01	1,746.8	5,363.2	-13.6	-12.0	18.1	0.54	-0.54	-0.96
1,852.0	1.49	259.78	1,851.8	5,258.2	-13.8	-14.5	19.9	0.30	0.21	-8.79
1,915.0	1.58	250.11	1,914.8	5,195.2	-14.3	-16.2	21.3	0.43	0.14	-15.35
2,010.0	3.16	229.45	2,009.7	5,100.3	-16.4	-19.4	25.0	1.86	1.66	-21.75
2,106.0	3.69	222.07	2,105.5	5,004.5	-20.4	-23.5	30.7	0.72	0.55	-7.69
2,201.0	5.14	220.14	2,200.2	4,909.8	-26.0	-28.3	38.0	1.53	1.53	-2.03
2,294.0	6.33	216.71	2,292.7	4,817.3	-33.3	-34.0	47.3	1.33	1.28	-3.69
2,389.0	7.91	219.08	2,387.0	4,723.0	-42.5	-41.3	59.1	1.69	1.66	2.49
2,484.0	9.45	210.82	2,480.9	4,629.1	-54.3	-49.4	73.3	2.08	1.62	-8.69
2,579.0	10.33	216.53	2,574.5	4,535.5	-67.9	-58.4	89.5	1.39	0.93	6.01
2,674.0	12.32	223.04	2,667.7	4,442.3	-82.1	-70.4	108.2	2.49	2.09	6.85
2,769.0	14.37	219.96	2,760.1	4,349.9	-98.6	-84.9	130.1	2.28	2.16	-3.24
2,863.0	15.34	216.27	2,851.0	4,259.0	-117.5	-99.8	154.2	1.44	1.03	-3.93
2,958.0	17.09	218.29	2,942.2	4,167.8	-138.6	-115.9	180.7	1.94	1.84	2.13
3,054.0	18.72	219.08	3,033.5	4,076.5	-161.6	-134.3	210.2	1.72	1.70	0.82
3,148.0	19.64	219.87	3,122.3	3,987.7	-185.5	-154.0	241.0	1.02	0.98	0.84
3,244.0	19.16	218.29	3,212.9	3,897.1	-210.2	-174.1	272.9	0.74	-0.50	-1.65
3,338.0	18.81	217.15	3,301.7	3,808.3	-234.4	-192.8	303.5	0.54	-0.37	-1.21
3,433.0	18.50	217.15	3,391.7	3,718.3	-258.6	-211.1	333.8	0.33	-0.33	0.00
3,528.0	19.42	219.61	3,481.6	3,628.4	-282.8	-230.3	364.7	1.28	0.97	2.59
3,623.0	20.21	220.40	3,571.0	3,539.0	-307.5	-251.0	396.9	0.88	0.83	0.83
3,718.0	17.91	219.35	3,660.8	3,449.2	-331.3	-270.9	427.9	2.45	-2.42	-1.11
3,812.0	15.91	217.85	3,750.7	3,359.3	-352.6	-288.0	455.2	2.18	-2.13	-1.60
3,908.0	15.07	218.03	3,843.2	3,266.8	-372.8	-303.7	480.9	0.88	-0.87	0.19
4,002.0	12.74	218.12	3,934.4	3,175.6	-390.6	-317.7	503.5	2.48	-2.48	0.10
4,097.0	11.34	216.71	4,027.3	3,082.7	-406.4	-329.7	523.3	1.51	-1.47	-1.48
4,191.0	10.33	218.73	4,119.7	2,990.3	-420.3	-340.5	540.9	1.15	-1.07	2.15
4,287.0	9.01	220.14	4,214.3	2,895.7	-432.8	-350.7	557.0	1.40	-1.37	1.47
4,382.0	7.60	220.93	4,308.3	2,801.7	-443.2	-359.6	570.8	1.49	-1.48	0.83
4,477.0	6.06	218.29	4,402.6	2,707.4	-451.9	-366.9	582.0	1.65	-1.62	-2.78
4,572.0	5.14	216.53	4,497.2	2,612.8	-459.3	-372.5	591.3	0.99	-0.97	-1.85
4,667.0	3.91	208.01	4,591.9	2,518.1	-465.5	-376.6	598.7	1.47	-1.29	-8.97
4,759.0	3.56	203.79	4,683.7	2,426.3	-470.9	-379.2	604.5	0.48	-0.38	-4.59
4,852.0	2.29	199.48	4,776.6	2,333.4	-475.3	-381.0	609.1	1.38	-1.37	-4.63
4,946.0	0.70	207.57	4,870.5	2,239.5	-477.6	-381.9	611.4	1.70	-1.69	8.61
5,040.0	0.66	216.27	4,964.5	2,145.5	-478.5	-382.5	612.5	0.12	-0.04	9.26
5,134.0	1.05	191.84	5,058.5	2,051.5	-479.8	-382.9	613.8	0.56	0.41	-25.99
5,229.0	0.70	60.62	5,153.5	1,956.5	-480.4	-382.6	614.0	1.68	-0.37	-138.13
5,324.0	0.53	108.08	5,248.5	1,861.5	-480.2	-381.7	613.3	0.55	-0.18	49.96
5,419.0	1.01	133.04	5,343.5	1,766.5	-481.0	-380.7	613.2	0.61	0.51	26.27
5,513.0	1.01	179.55	5,437.5	1,672.5	-482.3	-380.1	613.9	0.85	0.00	49.48
5,608.0	1.10	171.71	5,532.5	1,577.5	-484.1	-379.9	615.1	0.18	0.09	-8.25
5,703.0	1.10	178.04	5,627.4	1,482.6	-485.9	-379.8	616.4	0.13	0.00	6.66
5,798.0	1.63	190.26	5,722.4	1,387.6	-488.1	-380.0	618.3	0.63	0.56	12.86
5,894.0	1.32	191.40	5,818.4	1,291.6	-490.6	-380.4	620.5	0.32	-0.32	1.19
5,988.0	0.70	204.76	5,912.4	1,197.6	-492.2	-380.9	622.0	0.70	-0.66	14.21
6,082.0	1.14	189.20	6,006.4	1,103.6	-493.6	-381.3	623.3	0.53	0.47	-16.55
6,176.0	0.26	112.56	6,100.3	1,009.7	-494.6	-381.2	624.1	1.18	-0.94	-81.53



## Survey Report



<b>Company:</b>	BILL BARRETT CORPORATION	<b>Local Co-ordinate Reference:</b>	Well LC TRIBAL #5-21D-46
<b>Project:</b>	UTAH (DUCHESNE COUNTY -NAD	<b>TVD Reference:</b>	KB @ 7110.0usft (SST 17)
<b>Site:</b>	SEC. 21 T4S R6W U.S.B & M	<b>MD Reference:</b>	KB @ 7110.0usft (SST 17)
<b>Well:</b>	LC TRIBAL #5-21D-46	<b>North Reference:</b>	True
<b>Wellbore:</b>	ORIGINAL WELLBORE	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Design:</b>	FINAL SURVEYS	<b>Database:</b>	EDM 5000.1 Single User Db

Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	Subsea Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
6,271.0	0.31	132.60	6,195.3	914.7	-494.9	-380.8	624.0	0.12	0.05	21.09
6,366.0	0.79	161.43	6,290.3	819.7	-495.7	-380.4	624.4	0.57	0.51	30.35
6,461.0	1.10	167.49	6,385.3	724.7	-497.2	-380.0	625.3	0.34	0.33	6.38
6,557.0	1.14	196.85	6,481.3	628.7	-499.0	-380.1	626.7	0.59	0.04	30.58
6,651.0	1.32	198.17	6,575.3	534.7	-500.9	-380.7	628.6	0.19	0.19	1.40
6,739.0	0.62	170.04	6,663.3	446.7	-502.3	-381.0	629.8	0.94	-0.80	-31.97
6,834.0	0.53	159.76	6,758.3	351.7	-503.3	-380.7	630.4	0.14	-0.09	-10.82
6,930.0	0.66	171.18	6,854.3	255.7	-504.2	-380.5	631.0	0.18	0.14	11.90
7,024.0	0.83	173.47	6,948.3	161.7	-505.4	-380.3	631.8	0.18	0.18	2.44
7,119.0	0.88	171.80	7,043.2	66.8	-506.8	-380.1	632.8	0.06	0.05	-1.76
7,215.0	0.97	174.17	7,139.2	-29.2	-508.4	-379.9	633.8	0.10	0.09	2.47
7,309.0	1.05	188.06	7,233.2	-123.2	-510.0	-380.0	635.1	0.27	0.09	14.78
7,342.0	0.97	184.45	7,266.2	-156.2	-510.6	-380.0	635.6	0.31	-0.24	-10.94
<b>EXTRAPOLATION TO TD</b>										
7,392.0	0.97	184.45	7,316.2	-206.2	-511.4	-380.1	636.3	0.00	0.00	0.00

Targets										
Target Name	-hit/miss target	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
BHL -#5-21D-46		0.00	0.00	7,280.0	-465.2	-386.2	7,213,889.84	1,899,321.30	40° 7' 13.141 N	110° 34' 26.951 W
-survey misses target center by 47.8usft at 7342.0usft MD (7266.2 TVD, -510.6 N, -380.0 E)										
-Rectangle (sides W200.0 H200.0 D0.0)										

Survey Annotations					
	Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
			+N/-S (usft)	+E /-W (usft)	
	7,392.0	7,316.2	-511.4	-380.1	EXTRAPOLATION TO TD

Checked By: \_\_\_\_\_ Approved By: \_\_\_\_\_ Date: \_\_\_\_\_

**5-21D-46 LC Tribal 2/18/2013 06:00 - 2/19/2013 06:00**

API/UWI 43013336580000	State/Province Utah	County Duchesne	Field Name Brundage Canyon/Lake Canyon	Well Status PRODUCING	Total Depth (ftKB) 7,392.0	Primary Job Type Drilling/Completion
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**Time Log**

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	12.00	18:00	1	RIGUP & TEARDOWN	LOAD OUT DERRICK, SKID RAILS, SUB SPREADERS, FUEL TANKS, WATER TANKS, MATS, COMBO HOUSE, ROP DRIVE C-CAN, OIL BUNKERS/TRUCK & TRACTOR SLIDE OFF ROAD, PULLED OUT WITH CRANE AND POLE TRUCK/SAFE INCIDENT REPORT SUBMITTED/MIRU, SUBS, MATTING BOARDS, MUD PITS, MUD PUMPS, MATTING BOARDS, FUEL TANK, DAY TANK, PIPE RACKS, D.C./SET MATTING BOARDS/RIG 10% R/U/50% OF RIG ON LOCATION

**5-21D-46 LC Tribal 2/19/2013 06:00 - 2/20/2013 06:00**

API/UWI 43013336580000	State/Province Utah	County Duchesne	Field Name Brundage Canyon/Lake Canyon	Well Status PRODUCING	Total Depth (ftKB) 7,392.0	Primary Job Type Drilling/Completion
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**Time Log**

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	12.00	18:00	1	RIGUP & TEARDOWN	RD/MIRU/LOAD OUT LAST OF RIG, SET MATS, MUD TANKS, SUB, MUD PUMPS, WATER TANK, PUT DERRICK TOGETHER, SET DRAG CHAIN, SCR HOUSE
18:00	12.00	06:00	1	RIGUP & TEARDOWN	WAIT ON DAYLIGHT

**5-21D-46 LC Tribal 2/20/2013 06:00 - 2/21/2013 06:00**

API/UWI 43013336580000	State/Province Utah	County Duchesne	Field Name Brundage Canyon/Lake Canyon	Well Status PRODUCING	Total Depth (ftKB) 7,392.0	Primary Job Type Drilling/Completion
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**Time Log**

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	12.00	18:00	1	RIGUP & TEARDOWN	SPOOLED BLOCKS, SET SHAKERS, FUEL TANKS, SET DERRICK ON SUB, FABRICATE ON PITS
18:00	12.00	06:00	1	RIGUP & TEARDOWN	WAIT ON DAYLIGHT

**5-21D-46 LC Tribal 2/21/2013 06:00 - 2/22/2013 06:00**

API/UWI 43013336580000	State/Province Utah	County Duchesne	Field Name Brundage Canyon/Lake Canyon	Well Status PRODUCING	Total Depth (ftKB) 7,392.0	Primary Job Type Drilling/Completion
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**Time Log**

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	12.00	18:00	1	RIGUP & TEARDOWN	RU/GAS BUSTER, PITS, PRE-MIX, BOILER, ELECTRICAL, WATER, STEAM/FABRICATE ON MUD PITS
18:00	12.00	06:00	1	RIGUP & TEARDOWN	WAIT ON DAYLIGHT

**5-21D-46 LC Tribal 2/22/2013 06:00 - 2/23/2013 06:00**

API/UWI 43013336580000	State/Province Utah	County Duchesne	Field Name Brundage Canyon/Lake Canyon	Well Status PRODUCING	Total Depth (ftKB) 7,392.0	Primary Job Type Drilling/Completion
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**Time Log**

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	12.00	18:00	1	RIGUP & TEARDOWN	RU DERRICK, DRAWWORKS, GAS BUSTER, ELECTRICAL, SET VFW, SPOOL LINE ON DRUM, FABRICATE ON PITS, FABRICATE ON PRE-MIX HOPPER
18:00	12.00	06:00	1	RIGUP & TEARDOWN	WAIT ON DAYLIGHT

**5-21D-46 LC Tribal 2/23/2013 06:00 - 2/24/2013 06:00**

API/UWI 43013336580000	State/Province Utah	County Duchesne	Field Name Brundage Canyon/Lake Canyon	Well Status PRODUCING	Total Depth (ftKB) 7,392.0	Primary Job Type Drilling/Completion
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# Bill Barrett Corporation

## Time Log

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	12.00	18:00	1	RIGUP & TEARDOWN	RU/RAISE DERRICK, PU TOP DRIVE & TRACK, INSTALL 3" WATER SYSTEM ON MUD PITS FROM YELLOW DOG, HOOK UP AND POWER UP TOP DRIVE, INSTALL & FABRICATE ON FLARE LINES, INSTALL HAND RAILS ON FLOOR, SLIP & CUT DRLG LINE, INSTALL SLIDES ON SHAKERS, PUT UP LIGHTS, INSTALL STEAM HEATERS & STEAM LINES TO UPRIGHTS & DAY TANK.
18:00	12.00	06:00	1	RIGUP & TEARDOWN	WAIT ON DAYLIGHT

## 5-21D-46 LC Tribal 2/24/2013 06:00 - 2/25/2013 06:00

API/UWI 43013336580000	State/Province Utah	County Duchesne	Field Name Brundage Canyon/Lake Canyon	Well Status PRODUCING	Total Depth (ftKB) 7,392.0	Primary Job Type Drilling/Completion
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## Time Log

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	18.00	00:00	1	RIGUP & TEARDOWN	RU FLOOR, PASON, INSTALL SAVER SUB, BAILS, ELEVATORS, CMT DIVERTER, FILL PITS, INSTALL CONDUCTOR, MIX SPUD MUD, PUT BHA ON RACKS, STRAP, / DAY WORK @ 18:00 SST
00:00	2.50	02:30	20	DIRECTIONAL WORK	PJSM W /DIRECTIONAL & MWD/PU DIRECTIONAL TOOLS
02:30	3.00	05:30	2	DRILL ACTUAL	DRILL ACTUAL/98'-300'/WOB 10K-15K/PUMP #1 95 /PUMP #2 95/ROT RPM 40/ BIT RPM 87/ROP 67.33
05:30	0.50	06:00	7	LUBRICATE RIG	RIG SERVICE WORK ON PIPE SPINNERS

## 5-21D-46 LC Tribal 2/25/2013 06:00 - 2/26/2013 06:00

API/UWI 43013336580000	State/Province Utah	County Duchesne	Field Name Brundage Canyon/Lake Canyon	Well Status PRODUCING	Total Depth (ftKB) 7,392.0	Primary Job Type Drilling/Completion
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## Time Log

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	4.00	10:00	2	DRILL ACTUAL	DRILL ACTUAL/300'-693'/WOB 15K-20K/PUMP #1 95 /PUMP #2 95/ROT RPM 40/ BIT RPM 87/ROP 98.25
10:00	0.50	10:30	8	REPAIR RIG	CHANGE GRABBER DIES
10:30	0.50	11:00	7	LUBRICATE RIG	RIG SERVICE
11:00	8.50	19:30	2	DRILL ACTUAL	DRILL ACTUAL/693'-1,570'/WOB 25K-28K/PUMP #1 95 /PUMP #2 95/ROT RPM 40/ BIT RPM 87/ROP 103.17/LOST RETURNS 150 BBL LOSS
19:30	1.50	21:00	5	COND MUD & CIRC	CONDITION MUD TO 25% L.C.M./PULL SCREENS/PUMP 60 BBLS 40% L.C.M. SWEEP ESTABLISHED RETURNS
21:00	4.50	01:30	2	DRILL ACTUAL	DRILL ACTUAL/1,570'-1,807'/WOB 25K-30K/PUMP #1 75 /PUMP #2 75/ROT RPM 40/ BIT RPM 72/ROP 52.66/LOST RETURNS AGAIN UP HOLE FLUID @ BTM CONDUCTOR
01:30	1.50	03:00	5	COND MUD & CIRC	CONDITON MUD/SPOT 40% L.C.M. SWEEP/BLOW DOWN TOP DRIVE & STAND PIPE
03:00	2.00	05:00	6	TRIPS	WIPER TRIP /TOOH TO 6" D.C./PUMP 50 BBLS DOWN HOLE NO RETURNS/TIH TO 1,000'
05:00	1.00	06:00	5	COND MUD & CIRC	COND MUD TO 30% L.C.M./PUMP 50 BBLS 40% L.C.M./CHASE STRING CLEAR

## 5-21D-46 LC Tribal 2/26/2013 06:00 - 2/27/2013 06:00

API/UWI 43013336580000	State/Province Utah	County Duchesne	Field Name Brundage Canyon/Lake Canyon	Well Status PRODUCING	Total Depth (ftKB) 7,392.0	Primary Job Type Drilling/Completion
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## Time Log

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	0.50	06:30	6	TRIPS	TIH T/1,443'
06:30	2.50	09:00	5	COND MUD & CIRC	COND MUD TO 40% L.C.M./BRK CIRC.
09:00	0.50	09:30	6	TRIPS	TIH TO 1,720'
09:30	1.50	11:00	5	COND MUD & CIRC	CIRC BTMS UP/FILL HOLE W /40% L.C.M.
11:00	1.50	12:30	6	TRIPS	TOOH W /BIT #1
12:30	0.50	13:00	12	RUN CASING & CEMENT	PJSM W/LAY DOWN MACHINE & CASING CREW
13:00	1.50	14:30	20	DIRECTIONAL WORK	LD DIR. TOOLS
14:30	6.50	21:00	12	RUN CASING & CEMENT	CHANGE OUT BAILS /RUN 41 JTS 1,810.43' 9-5/8J-55 36# 8RD ST&C 8RD Rng3 SURFACE CSG, 10-CENTRALIZERS /SHOE @ 1,805'/BRK CIRC @ 664', 1,325', & 1,805'/RD CASING CREW



**Time Log**

Start Time	Dur (hr)	End Time	Code	Category	Com
21:00	5.00	02:00	12	RUN CASING & CEMENT	RU HALLIBURTON/HELD SAFETY MEETING/TEST LINES @ 3,000 PSI PUMP 20 BBL H2O SPACER/40BBL SUPER FLUSH/ 20 BBL H2O SPACER /260 SKS 120.0 BBLs 673.77 CU/FT 11.0PPG 3.16 YEILD 19.48 GAL/SK/240 SKS 56.8 BBLs 318.92 CU/FT 14.8PPG 1.33 YEILD 6.31 GAL/SK DISPLACE 136.3 BBLs DISPLACEMENT H2O FLUID, FINAL LIFT 340PSI, BUMP PLUG @ 830 PSI, FLOATS HELD. YES LOST RETURNS @ START OF DISPLACEMENT
02:00	2.00	04:00	13	WAIT ON CEMENT	WOC/RD CMT HEAD/CSG SPIDERS/TIH W/1" FOR TOP JOB.
04:00	1.50	05:30	12	RUN CASING & CEMENT	TOP JOB/PUMP 200SK 15.8 40.9 BBLs 2% CALCIUM/CMT TO BTM OF FLOWLINE AND FELL BACK LAST 6-BBLs /TOOH W/1"
05:30	0.50	06:00	13	WAIT ON CEMENT	WAIT ON CMT

**5-21D-46 LC Tribal 2/27/2013 06:00 - 2/28/2013 06:00**

API/UWI 43013336580000	State/Province Utah	County Duchesne	Field Name Brundage Canyon/Lake Canyon	Well Status PRODUCING	Total Depth (ftKB) 7,392.0	Primary Job Type Drilling/Completion
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**Time Log**

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	2.00	08:00	13	WAIT ON CEMENT	WOC
08:00	1.00	09:00	12	RUN CASING & CEMENT	2nd TOP JOB: PUMP 175 SKS 35.48BBLs 199.21 CU/FT 15.8PPG 2% CACL/ 3 - BBLs CMT TO SURFACE./RD HALLIBURTON.
09:00	2.50	11:30	13	WAIT ON CEMENT	FLUSH CONDUCTOR/PREP FOR WELDING ON WELLHEAD
11:30	2.00	13:30	14	NIPPLE UP B.O.P	NU BOP/CUT CASING & CONDUCTOR/WELD ON WELLHEAD & TEST TO 5,000PSI
13:30	2.00	15:30	9	CUT OFF DRILL LINE	CUT & SLIP 12 WRAPS OF DRLG LINE
15:30	3.50	19:00	14	NIPPLE UP B.O.P	NU BOPE
19:00	5.50	00:30	15	TEST B.O.P	TEST TIW, LWCF, KILL INSIDE, CHECK VALVE, INSIDE KILL, IBOP, HCR, ALL TESTED 5000 PSI 10-MIN 250PSI 5-MIN/TEST ANNULAR 2500 PSI 10-MIN 250PSI 5-MIN/CASING 1500PSI 30-MIN/TEST KOOMEY/B&C QUICK TEST PAUL OAKS TESTER/B.L.M. INSPECTOR ALAN WALKER PRESENT
00:30	5.50	06:00	8	REPAIR RIG	WRONG SIZE CHOKE LINE RIG HAS 3" CROKE LINE NEEDS 4-1/2" SCH 120 FOR 5000 PSI TEST/WAIT ON CHOKE LINES/RU FLOOR, GET SURFACE EQUIPMENT OFF FLOOR, CLEAN, GET WEAR BUSHING ON FLOOR

**5-21D-46 LC Tribal 2/28/2013 06:00 - 3/1/2013 06:00**

API/UWI 43013336580000	State/Province Utah	County Duchesne	Field Name Brundage Canyon/Lake Canyon	Well Status PRODUCING	Total Depth (ftKB) 7,392.0	Primary Job Type Drilling/Completion
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**Time Log**

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	5.00	11:00	8	REPAIR RIG	WAIT ON CHOKE LINES
11:00	1.50	12:30	15	TEST B.O.P	INNER & OUTER CHOKE MANIFOLD VALVES, BLIND RAMS ALL TESTED 5,000PSI 10-MIN/250PSI 5-MIN/MANUAL & POWER CHOKE TESTED 500PSI 5-MIN/B & C QUICK TEST PAUL OAKS TESTER/ALLAN WALKER B.L.M. INSPECTOR PRESENT
12:30	0.50	13:00	21	OPEN	INSTALL WEAR BUSHING
13:00	1.50	14:30	20	DIRECTIONAL WORK	PU & MU DIR. TOOLS/SCRIBE & ORIENTATE
14:30	1.50	16:00	6	TRIPS	TIH W/BIT #2
16:00	0.50	16:30	3	REAMING	DRILL CMT & FLOAT EQUIPMENT/F.C. @ 1,758' F.S. @ 1,807'
16:30	0.50	17:00	2	DRILL ACTUAL	DRILL ACTUAL/1,807'-1,827'/WOB 15K-18K/PUMP #1 90 /PUMP #2 0/ROT RPM 40/BIT RPM 43/ROP 40
17:00	0.50	17:30	5	COND MUD & CIRC	CIRC BTMS UP/CLEAR STRING W/CLEAR MUD
17:30	0.50	18:00	21	OPEN	EMW TEST 10.5PPG=170PSI 168PSI 5-MIN GOOD TEST
18:00	9.00	03:00	2	DRILL ACTUAL	DRILL ACTUAL/1,827'-2,944'/WOB 15K-18K/PUMP #1 100 /PUMP #2 100/ROT RPM 45/BIT RPM 96/ROP 124.11
03:00	2.50	05:30	5	COND MUD & CIRC	LOST 120BBLs DRINK LOST FLOW 2,932'/PUMP 45% L.C.M. SWEEP/SPOT 45% L.C.M. PILL/COND MUD TO 40% L.C.M.
05:30	0.50	06:00	2	DRILL ACTUAL	DRILL ACTUAL/2,944'-2,980'/WOB 15K-18K/PUMP #1 100 /PUMP #2 0/ROT RPM 45/BIT RPM 48/ROP 72

**5-21D-46 LC Tribal 3/1/2013 06:00 - 3/2/2013 06:00**

API/UWI 43013336580000	State/Province Utah	County Duchesne	Field Name Brundage Canyon/Lake Canyon	Well Status PRODUCING	Total Depth (ftKB) 7,392.0	Primary Job Type Drilling/Completion
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**Bill Barrett Corporation****Time Log**

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	8.50	14:30	2	DRILL ACTUAL	DRILL ACTUAL/2,980'-3,583'/WOB 15K-18K/PUMP #1 100 /PUMP #2 0/ROT RPM 45/BIT RPM 48/ROP 70.94
14:30	0.50	15:00	7	LUBRICATE RIG	RIG SERVICE
15:00	4.00	19:00	2	DRILL ACTUAL	DRILL ACTUAL/3,583'-3,980'/WOB 20K-25K/PUMP #1 65 /PUMP #2 65/ROT RPM 45/BIT RPM 62/ROP 99.25
19:00	3.50	22:30	5	COND MUD & CIRC	LOST FLOW & 150BBLs /BUILD VOL. TO 40% L.C.M.
22:30	7.50	06:00	2	DRILL ACTUAL	DRILL ACTUAL/3,980'-4,550'/WOB 20K-25K/PUMP #1 0 /PUMP #2 100/ROT RPM 45/BIT RPM 48/ROP 76.00

**5-21D-46 LC Tribal 3/2/2013 06:00 - 3/3/2013 06:00**

API/UWI 43013336580000	State/Province Utah	County Duchesne	Field Name Brundage Canyon/Lake Canyon	Well Status PRODUCING	Total Depth (ftKB) 7,392.0	Primary Job Type Drilling/Completion
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**Time Log**

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	7.50	13:30	2	DRILL ACTUAL	DRILL ACTUAL/4,550'-4,907'/WOB 20K-25K/PUMP #1 0 /PUMP #2 100/ROT RPM 45/BIT RPM 48/ROP 47.6
13:30	0.50	14:00	7	LUBRICATE RIG	RIG SERVICE
14:00	16.00	06:00	2	DRILL ACTUAL	DRILL ACTUAL/4,907'-5,540'/WOB 25K-28K/PUMP #1 0 /PUMP #2 100/ROT RPM 45/BIT RPM 58/ROP 39.56

**5-21D-46 LC Tribal 3/3/2013 06:00 - 3/4/2013 06:00**

API/UWI 43013336580000	State/Province Utah	County Duchesne	Field Name Brundage Canyon/Lake Canyon	Well Status PRODUCING	Total Depth (ftKB) 7,392.0	Primary Job Type Drilling/Completion
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**Time Log**

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	8.50	14:30	2	DRILL ACTUAL	DRILL ACTUAL/5,540'-5,949'/WOB 25K-28K/PUMP #1 0 /PUMP #2 120/ROT RPM 45/BIT RPM 58/ROP 48.11
14:30	0.50	15:00	7	LUBRICATE RIG	RIG SERVICE
15:00	15.00	06:00	2	DRILL ACTUAL	DRILL ACTUAL/5,949'-6,580'/WOB 25K-28K/PUMP #1 0 /PUMP #2 120/ROT RPM 45/BIT RPM 58/ROP 42.06

**5-21D-46 LC Tribal 3/4/2013 06:00 - 3/5/2013 06:00**

API/UWI 43013336580000	State/Province Utah	County Duchesne	Field Name Brundage Canyon/Lake Canyon	Well Status PRODUCING	Total Depth (ftKB) 7,392.0	Primary Job Type Drilling/Completion
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**Time Log**

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	6.00	12:00	2	DRILL ACTUAL	DRILL ACTUAL/6,580'-6,785'/WOB 25K-28K/PUMP #1 0 /PUMP #2 120/ROT RPM 45/BIT RPM 58/ROP 34.16
12:00	5.50	17:30	6	TRIPS	PUMP 3-STDs OFF BTM/PUMP SLUG/TOOH W/BIT #2/LD 3-PT REAMERS
17:30	0.50	18:00	20	DIRECTIONAL WORK	CHECK MUD MTR/XO BIT/SCRIBE/ORIENTATE
18:00	2.50	20:30	6	TRIPS	TIH W/BIT #3 TO 880'/BRK CIRC/TIH 3,500' BRK CIRC PACKED OFF STRING
20:30	3.50	00:00	6	TRIPS	TOOH T/UN PLUG STRING
00:00	1.50	01:30	20	DIRECTIONAL WORK	PU BIT, MUD MTR, SCRIBE, ORIENTATE
01:30	4.50	06:00	6	TRIPS	TIH T/1,836' BRK CIRC PACKED OFF AGAIN/DUMP SUCTION 2-1/2" SAND IN SUCTION PIT/CLEAN PITS & TOOH TO INSPECT DIR. TOOLS/BUILD MUD IN PRE-MIX TO TRANSFER OVER

**5-21D-46 LC Tribal 3/5/2013 06:00 - 3/6/2013 06:00**

API/UWI 43013336580000	State/Province Utah	County Duchesne	Field Name Brundage Canyon/Lake Canyon	Well Status PRODUCING	Total Depth (ftKB) 7,392.0	Primary Job Type Drilling/Completion
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**Time Log**

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	2.50	08:30	6	TRIPS	CLEAN OUT LCM DP & BHA/LD MUD MTR
08:30	5.00	13:30	5	COND MUD & CIRC	CLEAN PITS
13:30	1.00	14:30	20	DIRECTIONAL WORK	MU MUD MTR & DIR. TOOLS/SCRIBE & ORIENTATE/MU BIT
14:30	1.50	16:00	6	TRIPS	TIH TO SHOE



**Time Log**

Start Time	Dur (hr)	End Time	Code	Category	Com
16:00	0.50	16:30	5	COND MUD & CIRC	CIRC BTMS UP
16:30	0.50	17:00	6	TRIPS	TIH 10-STD
17:00	0.50	17:30	5	COND MUD & CIRC	CIRC SPOT 40% LCM
17:30	1.50	19:00	6	TRIPS	TIH 1-STD OFF BTM 6,694'
19:00	2.00	21:00	5	COND MUD & CIRC	BRK CIRC/BUILD 40% LCM IN ACTIVE
21:00	9.00	06:00	2	DRILL ACTUAL	DRILL ACTUAL/6,785'-7,074'/WOB 25K-28K/PUMP #1 0 /PUMP #2 120/ROT RPM 45/BIT RPM 58/ROP 32.11

**5-21D-46 LC Tribal 3/6/2013 06:00 - 3/7/2013 06:00**

API/UWI 43013336580000	State/Province Utah	County Duchesne	Field Name Brundage Canyon/Lake Canyon	Well Status PRODUCING	Total Depth (ftKB) 7,392.0	Primary Job Type Drilling/Completion
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**Time Log**

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	4.00	10:00	2	DRILL ACTUAL	DRILL ACTUAL/7,074'-7,264'/WOB 25K-28K/PUMP #1 0 /PUMP #2 120/ROT RPM 45/BIT RPM 58/ROP 47.5
10:00	0.50	10:30	7	LUBRICATE RIG	RIG SERVICE
10:30	3.00	13:30	2	DRILL ACTUAL	DRILL ACTUAL/7,264'-7,392'/WOB 25K-28K/PUMP #1 0 /PUMP #2 120/ROT RPM 45/BIT RPM 58/ROP 42.66
13:30	1.00	14:30	5	COND MUD & CIRC	CIRC SWEEPS TO SURFACE
14:30	1.00	15:30	6	TRIPS	WIPER TRIP 10-STD
15:30	1.00	16:30	5	COND MUD & CIRC	CIRC SWEEPS TO SURFACE
16:30	4.00	20:30	6	TRIPS	TOOH F/OH LOGS/STRAP OUT OF HOLE
20:30	1.00	21:30	20	DIRECTIONAL WORK	LD DIR TOOLS
21:30	6.00	03:30	11	WIRELINE LOGS	PJSM/RU LOGGERS/LOGGERS DEPTH 7,390'/DRILLERS DEPTH 7,392'/RD LOGGERS
03:30	2.50	06:00	6	TRIPS	TIH W/CLEAN UP BIT/BRK CIRC 1,864'/TIH

**5-21D-46 LC Tribal 3/7/2013 06:00 - 3/8/2013 06:00**

API/UWI 43013336580000	State/Province Utah	County Duchesne	Field Name Brundage Canyon/Lake Canyon	Well Status PRODUCING	Total Depth (ftKB) 7,392.0	Primary Job Type Drilling/Completion
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**Time Log**

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	3.50	09:30	6	TRIPS	TIH W/CLEAN UP BIT/BRK CIRC @ 4,000', 6,000', & 7,300'/WASH TO BTM
09:30	1.50	11:00	5	COND MUD & CIRC	CIRC BTMS UP
11:00	5.50	16:30	6	TRIPS	PJSM/LD DP, HWDP, & D.C.
16:30	3.00	19:30	12	RUN CASING & CEMENT	WAIT ON CASING CREW
19:30	8.50	04:00	12	RUN CASING & CEMENT	PKSM/RU CASING CREW/RUN 166 JTS 7,393.66' 5-1/2 P-110 17# 8RD LT&C 8RD Rng3 PRODUCTION CSG, SHOE @ 7,389'/BRK CIRC @ JT # 40/1,842', JT #80/3,626', JT # 120/5,360', & JT #166/7,393'/RD CASING CREW
04:00	1.00	05:00	5	COND MUD & CIRC	CIRC BTMS UP
05:00	1.00	06:00	12	RUN CASING & CEMENT	PJSM/RU HALLIBURTON

**5-21D-46 LC Tribal 3/8/2013 06:00 - 3/8/2013 14:00**

API/UWI 43013336580000	State/Province Utah	County Duchesne	Field Name Brundage Canyon/Lake Canyon	Well Status PRODUCING	Total Depth (ftKB) 7,392.0	Primary Job Type Drilling/Completion
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**Time Log**

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	4.00	10:00	12	RUN CASING & CEMENT	TEST LINES @ 5,000 PSI PUMP 5 BBL H2O SPACER/40BBL SUPER FLUSH/10 BBL H2O SPACER/565 SKS 231.38 BBL 1,118.00 CU/FT 11.00PPG 2.32 YEILD 10.64 GAL/SK/620 SKS 156.68BBL 765.00 CU/FT 13.5PPG 1.42 YEILD 6.65 GAL/SK DISPLACE 170.49 BBL DISPLACEMENT H2O W/BIOCID, FINAL LIFT 1,332 PSI, BUMP PLUG @ 1,900 PSI HELD 3-MIN.FLOATS HELD. GOT CMT RETURNS @ 130 BBL INTO DISPLACEMENT. LOST RETURNS 158 BBL INTO DISPLACEMENT LOST 12BBL /28 BBL CMT TO SURFACE/RD HALLIBURTON
10:00	2.00	12:00	14	NIPPLE UP B.O.P	NDBOP PU 165K SET SLIPS @ 165K 25K OVER ST. WT.
12:00	2.00	14:00	21	OPEN	CLEAN PITS & RIG DOWN/RELEASE RIG @ 14:00 ON 3/8/2013



**Bill Barrett Corporation****5-21D-46 LC Tribal 3/12/2013 06:00 - 3/13/2013 06:00**

API/UWI 43013336580000	State/Province Utah	County Duchesne	Field Name Brundage Canyon/Lake Canyon	Well Status PRODUCING	Total Depth (ftKB) 7,392.0	Primary Job Type Drilling/Completion
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**Time Log**

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	24.00	06:00	GOP	General Operations	CLEAN CELLAR. CHECK PRESSURE. REMOVE 11" NIGHT CAP. MAKE FINAL CUT. NU 7" 5K TBG HEAD. PRES TEST VOID. GOOD. INSTAL 7" NIGHT CAP.

**5-21D-46 LC Tribal 3/13/2013 06:00 - 3/14/2013 06:00**

API/UWI 43013336580000	State/Province Utah	County Duchesne	Field Name Brundage Canyon/Lake Canyon	Well Status PRODUCING	Total Depth (ftKB) 7,392.0	Primary Job Type Drilling/Completion
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**Time Log**

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	7.00	13:00	LOGG	Logging	MIRU SLB AND FRONTIER. HSM. CHECK PRES. RIH W/GR JB. TAG AT 7299'. (FC AT 7342') HAVE 43' FILL. RUN CBL/CCL/GR/TEMP LOG. SHOWING MARKER JTS 6773'-6795', 6121'-6143', AND 4801'-4823'. CMT BOND SHOWING TD-4670' GOOD, 4670'-4550' EXCELLENT, 4550'-4400' GOOD, 4400'-2800' FAIR, 2800'-580' BAD. TOC AT 580'. RAN CBL WITH PRESSURE. RD SLB AND FRONTIER.
13:00	17.00	06:00	GOP	General Operations	BATTERY UNDER CONSTRUCTION.

**5-21D-46 LC Tribal 3/14/2013 06:00 - 3/15/2013 06:00**

API/UWI 43013336580000	State/Province Utah	County Duchesne	Field Name Brundage Canyon/Lake Canyon	Well Status PRODUCING	Total Depth (ftKB) 7,392.0	Primary Job Type Drilling/Completion
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**Time Log**

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	24.00	06:00	GOP	General Operations	BATTERY UNDER CONSTRUCTION

**5-21D-46 LC Tribal 3/15/2013 06:00 - 3/16/2013 06:00**

API/UWI 43013336580000	State/Province Utah	County Duchesne	Field Name Brundage Canyon/Lake Canyon	Well Status PRODUCING	Total Depth (ftKB) 7,392.0	Primary Job Type Drilling/Completion
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**Time Log**

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	24.00	06:00	GOP	General Operations	BATTERY UNDER CONSTRUCTION

**5-21D-46 LC Tribal 3/16/2013 06:00 - 3/17/2013 06:00**

API/UWI 43013336580000	State/Province Utah	County Duchesne	Field Name Brundage Canyon/Lake Canyon	Well Status PRODUCING	Total Depth (ftKB) 7,392.0	Primary Job Type Drilling/Completion
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**Time Log**

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	24.00	06:00	GOP	General Operations	BATTERY UNDER CONSTRUCTION

**5-21D-46 LC Tribal 3/17/2013 06:00 - 3/18/2013 06:00**

API/UWI 43013336580000	State/Province Utah	County Duchesne	Field Name Brundage Canyon/Lake Canyon	Well Status PRODUCING	Total Depth (ftKB) 7,392.0	Primary Job Type Drilling/Completion
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**Time Log**

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	24.00	06:00	GOP	General Operations	BATTERY UNDER CONSTRUCTION

**5-21D-46 LC Tribal 3/18/2013 06:00 - 3/19/2013 06:00**

API/UWI 43013336580000	State/Province Utah	County Duchesne	Field Name Brundage Canyon/Lake Canyon	Well Status PRODUCING	Total Depth (ftKB) 7,392.0	Primary Job Type Drilling/Completion
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**Time Log**

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	24.00	06:00	GOP	General Operations	BATTERY UNDER CONSTRUCTION


**Bill Barrett Corporation**
**5-21D-46 LC Tribal 3/19/2013 06:00 - 3/20/2013 06:00**

API/UWI 43013336580000	State/Province Utah	County Duchesne	Field Name Brundage Canyon/Lake Canyon	Well Status PRODUCING	Total Depth (ftKB) 7,392.0	Primary Job Type Drilling/Completion
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**Time Log**

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	24.00	06:00	GOP	General Operations	BATTERY UNDER CONSTRUCTION

**5-21D-46 LC Tribal 3/24/2013 06:00 - 3/25/2013 06:00**

API/UWI 43013336580000	State/Province Utah	County Duchesne	Field Name Brundage Canyon/Lake Canyon	Well Status PRODUCING	Total Depth (ftKB) 7,392.0	Primary Job Type Drilling/Completion
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**Time Log**

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	24.00	06:00	GOP	General Operations	Finish Setting Frac Line. Filling Frac Line.

**5-21D-46 LC Tribal 3/25/2013 06:00 - 3/26/2013 06:00**

API/UWI 43013336580000	State/Province Utah	County Duchesne	Field Name Brundage Canyon/Lake Canyon	Well Status PRODUCING	Total Depth (ftKB) 7,392.0	Primary Job Type Drilling/Completion
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**Time Log**

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	24.00	06:00	GOP	General Operations	Set Frac Mandrel, Test. NU Frac Tree, Test. Plumb In FlowBack To Frac Tree, Test FlowBack System. Con't Filling Frac Line.

**5-21D-46 LC Tribal 3/26/2013 06:00 - 3/27/2013 06:00**

API/UWI 43013336580000	State/Province Utah	County Duchesne	Field Name Brundage Canyon/Lake Canyon	Well Status PRODUCING	Total Depth (ftKB) 7,392.0	Primary Job Type Drilling/Completion
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**Time Log**

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	24.00	06:00	GOP	General Operations	Finish Filling Frac Line. HES Set Water Manifold.

**5-21D-46 LC Tribal 3/27/2013 06:00 - 3/28/2013 06:00**

API/UWI 43013336580000	State/Province Utah	County Duchesne	Field Name Brundage Canyon/Lake Canyon	Well Status PRODUCING	Total Depth (ftKB) 7,392.0	Primary Job Type Drilling/Completion
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**Time Log**

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	24.00	06:00	GOP	General Operations	Heat Frac Line. HES Set Mover. Load And Mix Acid.

**5-21D-46 LC Tribal 3/28/2013 06:00 - 3/29/2013 06:00**

API/UWI 43013336580000	State/Province Utah	County Duchesne	Field Name Brundage Canyon/Lake Canyon	Well Status PRODUCING	Total Depth (ftKB) 7,392.0	Primary Job Type Drilling/Completion
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**Time Log**

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	3.50	09:30	LOCL	Lock Wellhead & Secure	WSI And Secured. Wireline Crew Arrive On Location. Hold Safety Meeting. Rig Up Lubricator, Arm Gun.
09:30	1.50	11:00	PFRT	Perforating	RIH With 3 1/8" PJ Omega 3104 Perf. Gun Configured At 120 Degree Phasing, 3 Spf, .36" Penetration Charges, 16 Gms., .44 Dia. Holes. Correlating To HES Dual Spaced Neutron/Spectral Density Dated 03-06-2013 And SLB CBL/CCL Dated 03-13-2013. Found And Correlated To Short Joint At 6,773 -6,795'. Drop Down To Depth, Perforate Stage 1 CR-5, CR-4A, CR-4 Zone, 6,888 -7,170'. 54 Holes. POOH. LayDown Gun, Verify All Shots Fired, WSI And Secured.
11:00	2.50	13:30	SRIG	Rig Up/Down	HES Rigging Up



## Time Log

Start Time	Dur (hr)	End Time	Code	Category	Com
13:30	16.50	06:00	LOCL	Lock Wellhead & Secure	WSI And Secured. SDFD.

## 5-21D-46 LC Tribal 3/29/2013 06:00 - 3/30/2013 06:00

API/UWI 43013336580000	State/Province Utah	County Duchesne	Field Name B rundage Canyon/Lake Canyon	Well Status PRODUCING	Total Depth (ft)(B) 7,392.0	Primary Job Type Drilling/Completion
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## Time Log

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	0.00	06:00	LOCL	Lock Wellhead & Secure	HES Crew On Location At 0400 Hrs., Prime Chemical And Fluid Pumps, Pressure Test To 9000 Psi., Ran QC On Fluid, Looks Good.
06:00	0.00	06:00	S MTG	S afety Meeting	Safety Meeting. Talk About Smoking Area, PPE, Escape And Mustering Areas, Communication, And Red Zone.
06:00	1.25	07:15	FRAC	Frac. J ob	<p>Frac Stage 1. Fluid System: Hybor G 16  Open Well, 0 Psi. ICP. BrokeDown At 9.6 Bpm And 2,319 Psi..  Pump 3900 Gals. 15% HCL And 108 Bio Balls, Attempt BallOut. Let Balls Fall.  Get Stabilized Injection Of 66.4 Bpm And 3,350 Psi., Get ISIP, 1,473 Psi.. 0.65 Psi./Ft. F.G.. 47/54 Holes.  Con't With SlickWater Pad, 48,762 Gals..  Stage Into Hybor Pad, 70.3 Bpm At 2,903 Psi..  On Perfs, 70.2 Bpm At 3,074 Psi., 12,231 Gals.  Stage Into 2.0# 20/40 White Prop, 70.2 Bpm At 3,088 Psi..  On Perfs, 70.1 Bpm At 2,766 Psi., 7,856 Gals.  Stage Into 3.0# 20/40 White Prop, 70.1 Bpm At 2,737 Psi..  On Perfs, 70.1 Bpm At 2,324 Psi., 24,312 Gals.  Stage Into 3.5# 20/40 White Prop, 70.2 Bpm At 2,302 Psi..  On Perfs, 70.2 Bpm At 2,205 Psi., 8,794 Gals.  Stage Into 4.0# 20/40 White Prop, 70.1 Bpm At 2,205 Psi..  On Perfs, 70.1 Bpm At 2,100 Psi., 9,319 Gals.  Stage Into Flush, Flush 15 Bbls. Over Bottom Perf..  Get ISDP, 1,560 Psi.. 0.67 Psi./Ft. F.G.. WSI And Secured.  Total 20/40 White Prop - 150,200#  Total Clean - 131,923 Gals.. 3,141 Bbls..  Produced Water - 67,334 Gals..  2% KCL - 62,512 Gals..  BWTR - 3,306 Bbls.  Max. Rate - 70.3 Bpm  Avg. Rate - 70.1 Bpm  Max. Psi. - 3,084 Psi.  Avg. Psi. - 2,386 Psi.</p>
07:15	0.17	07:25	CTUW	W/L Operation	Well Turned Over To WireLine. Pick Up Gun String And CBP Plug Assembly. Equalize To Well Pressure.
07:25	1.08	08:30	PFRT	Perforating	<p>RIH With 3 1/8" PJ Omega 3104 Perf. Gun Configured At 120 Degree Phasing, 3 Spf, .36" Penetration Charges, 16 Gms., .44 Dia. Holes. Correlating To HES Dual Spaced Neutron/Spectral Density Dated 03-06-2013 And SLB CBL/CCL Dated 03-13-2013.  Found And Correlated To Short Joint At 6,773 - 6,795'.  Drop Down To Depth, Set CBP At 6,878', 1,400 Psi..  Perforate Stage 2 CR-4, CR-3 Zone, 6,657 - 6,865'. 45 Holes. 1,350 Psi..  POOH. LayDown Gun, Verify All Shots Fired, WSI And Secured.</p>
08:30	0.09	08:35	GOP	General Operations	Well Turned Over To HES. Pressure Test To 8500#. Equalize, Open To Well.





# Bill Barrett Corporation

## Time Log

Start Time	Dur (hr)	End Time	Code	Category	Com
08:35	1.17	09:45	FRAC	Frac. Job	<p>Frac Stage 2. Fluid System: Hybor G 16  Open Well, 1,293 Psi. ICP. BrokeDown At 4.7 Bpm And 2,452 Psi.  Pump 3900 Gals. 15% HCL And 90 Bio Balls, Attempt BallOut. Let Balls Fall.  Get Stabilized Injection Of 70.5 Bpm And 3,937 Psi., Get ISIP, 1,608 Psi.. 0.68 Psi./Ft. F.G.. 40/45 Holes.  Con't With SlickWater Pad, 51,641 Gals..  Stage Into Hybor Pad, 70.3 Bpm At 2,994 Psi..  On Perfs, 70.0 Bpm At 3,279 Psi., 13,336 Gals.  Stage Into 2.0# 20/40 White Prop, 70.0 Bpm At 3,283 Psi..  On Perfs, 70.2 Bpm At 2,984 Psi., 7,564 Gals.  Stage Into 3.0# 20/40 White Prop, 70.2 Bpm At 2,957 Psi..  On Perfs, 70.3 Bpm At 2,607 Psi., 28,358 Gals.  Stage Into 3.5# 20/40 White Prop, 70.3 Bpm At 2,440 Psi..  On Perfs, 70.3 Bpm At 2,400 Psi., 8,560 Gals.  Stage Into 4.0# 20/40 White Prop, 70.3 Bpm At 2,394 Psi..  On Perfs, 70.2 Bpm At 2,357 Psi., 9,105 Gals.  Stage Into Flush, Flush 15 Bbls. Over Bottom Perf..  Get ISDP, 1,642 Psi.. 0.68 Psi./Ft. F.G.. WSI And Secured.  Total 20/40 White Prop - 160,100#  Total Clean - 137,476 Gals.. 3,273 Bbls..  Produced Water - 68,482 Gals..  2% KCL - 66,923 Gals..  BWTR - 3,444 Bbls.  Max. Rate - 70.4 Bpm  Avg. Rate - 70.3 Bpm  Max. Psi. - 3,286 Psi.  Avg. Psi. - 2,583 Psi.</p>
09:45	0.17	09:55	CTUW	W/L Operation	Well Turned Over To WireLine. Pick Up Gun String And CBP Plug Assembly. Equalize To Well Pressure.
09:55	1.08	11:00	PFRT	Perforating	<p>RIH With 3 1/8" PJ Omega 3104 Perf. Gun Configured At 120 Degree Phasing, 3 S pf, .36" Penetration Charges, 16 Gms., .44 Dia. Holes. Correlating To HES Dual Spaced Neutron/Spectral Density Dated 03-06-2013 And SLB CBL/CCL Dated 03-13-2013.  Found And Correlated To Short Joint At 6,121 - 6,143'.  Drop Down To Depth, Set CBP At 6,647', 1,400 Psi..  Perforate Stage 3 CR-3, CR-2 Zone, 6,373 - 6,627'. 45 Holes. 1,400 Psi..  POOH. LayDown Gun, Verify All Shots Fired, WSI And Secured.</p>
11:00	0.17	11:10	GOP	General Operations	Well Turned Over To HES. Pressure Test To 8500#. Equalize, Open To Well.
11:10	1.16	12:20	FRAC	Frac. Job	<p>Frac Stage 3. Fluid System: Hybor G 16  Open Well, 1,346 Psi. ICP. BrokeDown At 10.2 Bpm And 2,145 Psi..  Pump 3900 Gals. 15% HCL And 90 Bio Balls, Attempt BallOut. Let Balls Fall.  Get Stabilized Injection Of 70.3 Bpm And 3,511 Psi., Get ISIP, 1,598 Psi.. 0.68 Psi./Ft. F.G.. 40/45 Holes.  Con't With SlickWater Pad, 48,479 Gals..  Stage Into Hybor Pad, 70.0 Bpm At 2,972 Psi..  On Perfs, 70.0 Bpm At 3,125 Psi., 12,199 Gals.  Stage Into 2.0# 20/40 White Prop, 70.1 Bpm At 3,165 Psi..  On Perfs, 70.3 Bpm At 2,863 Psi., 7,259 Gals.  Stage Into 3.0# 20/40 White Prop, 70.3 Bpm At 2,808 Psi..  On Perfs, 70.3 Bpm At 2,555 Psi., 25,878 Gals.  Stage Into 3.5# 20/40 White Prop, 70.4 Bpm At 2,428 Psi..  On Perfs, 70.3 Bpm At 2,370 Psi., 8,557 Gals.  Stage Into 4.0# 20/40 White Prop, 70.3 Bpm At 2,400 Psi..  On Perfs, 70.2 Bpm At 2,365 Psi., 8,412 Gals.  Stage Into Flush, Flush 15 Bbls. Over Bottom Perf..  Get ISDP, 1,646 Psi.. 0.69 Psi./Ft. F.G.. WSI And Secured.  Total 20/40 White Prop - 150,100#  Total Clean - 129,255 Gals.. 3,078 Bbls..  Produced Water - 65,435 Gals..  2% KCL - 62,305 Gals..  BWTR - 3,239 Bbls.  Max. Rate - 70.4 Bpm  Avg. Rate - 70.3 Bpm  Max. Psi. - 3,166 Psi.  Avg. Psi. - 2,537 Psi.</p>
12:20	0.17	12:30	CTUW	W/L Operation	Well Turned Over To WireLine. Pick Up Gun String And CBP Plug Assembly. Equalize To Well Pressure.



# Bill Barrett Corporation

## Time Log

Start Time	Dur (hr)	End Time	Code	Category	Com
12:30	1.00	13:30	PFRT	Perforating	RIH With 3 1/8" PJ Omega 3104 Perf. Gun Configured At 120 Degree Phasing, 3 S pf, .36" Penetration Charges, 16 Gms., .44 Dia. Holes. Correlating To HES Dual Spaced Neutron/Spectral Density Dated 03-06-2013 And SLB CBL/CCL Dated 03-13-2013. Found And Correlated To Short Joint At 6,121 - 6,143'. Drop Down To Depth, Set CBP At 6,360', 1,350 Psi.. Perforate Stage 4 CR-2 Wasatch Zone, 6,101 - 6,350'. 45 Holes. 1,300 Psi.. POOH. LayDown Gun, Verify All Shots Fired, WSI And Secured.
13:30	0.08	13:35	GOP	General Operations	Well Turned Over To HES. Pressure Test To 8500#. Equalize, Open To Well.
13:35	1.08	14:40	FRAC	Frac. Job	Frac Stage 4. Fluid System: Hybor G 16 Open Well, 1,432 Psi. ICP. Broke Down At 10.0 Bpm And 2,071 Psi.. Pump 3900 Gals. 15% HCL And 90 Bio Balls, Attempt BallOut. Let Balls Fall. Get Stabilized Injection Of 70.3 Bpm And 3,560 Psi., Get ISIP, 1,165 Psi.. 0.63 Psi./Ft. F.G.. 34/45 Holes. Con't With SlickWater Pad, 48,386 Gals.. Stage Into Hybor Pad, 70.6 Bpm At 2,760 Psi.. On Perfs, 70.7 Bpm At 2,938 Psi., 12,196 Gals. Stage Into 2.0# 20/40 White Prop, 71.2 Bpm At 3,007 Psi.. On Perfs, 70.3 Bpm At 2,529 Psi., 6,952 Gals. Stage Into 3.0# 20/40 White Prop, 70.2 Bpm At 2,520 Psi.. On Perfs, 70.4 Bpm At 2,374 Psi., 26,792 Gals. Stage Into 3.5# 20/40 White Prop, 70.3 Bpm At 2,247 Psi.. On Perfs, 70.3 Bpm At 2,180 Psi., 8,040 Gals. Stage Into 4.0# 20/40 White Prop, 70.3 Bpm At 2,161 Psi.. On Perfs, 70.3 Bpm At 2,089 Psi., 9,766 Gals. Stage Into Flush, Flush 15 Bbls. Over Bottom Perf.. Get ISDP, 1,222 Psi.. 0.63 Psi./Ft. F.G.. WSI And Secured. Total 20/40 White Prop - 149,680# Total Clean - 129,728 Gals.. 3,089 Bbls.. Produced Water - 64,028 Gals.. 2% KCL - 62,746 Gals.. BWTR - 3,262 Bbls. Max. Rate - 70.6 Bpm Avg. Rate - 70.3 Bpm Max. Psi. - 3,007 Psi. Avg. Psi. - 2,303 Psi.
14:40	0.17	14:50	CTUW	W/L Operation	Well Turned Over To WireLine. Pick Up Gun String And CBP Plug Assembly. Equalize To Well Pressure.
14:50	1.00	15:50	PFRT	Perforating	RIH With 3 1/8" PJ Omega 3104 Perf. Gun Configured At 120 Degree Phasing, 3 S pf, .36" Penetration Charges, 16 Gms., .44 Dia. Holes. Correlating To HES Dual Spaced Neutron/Spectral Density Dated 03-06-2013 And SLB CBL/CCL Dated 03-13-2013. Found And Correlated To Short Joint At 4,801 - 4,823'. Drop Down To Depth, Set CBP At 6,092', 1,200 Psi.. Perforate Stage 5 UteLand Butte Zone, 5,849 - 6,077'. 45 Holes. 1,000 Psi.. POOH. LayDown Gun, Verify All Shots Fired, WSI And Secured.
15:50	14.17	06:00	LOCL	Lock Wellhead & Secure	WSI And Secured. SDFD.

## 5-21D-46 LC Tribal 3/30/2013 06:00 - 3/31/2013 06:00

API/UWI 43013336580000	State/Province Utah	County Duchesne	Field Name Brundage Canyon/Lake Canyon	Well Status PRODUCING	Total Depth (ftKB) 7,392.0	Primary Job Type Drilling/Completion
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## Time Log

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	0.25	06:15	LOCL	Lock Wellhead & Secure	HES Crew On Location At 0400 Hrs., Prime Chemical And Fluid Pumps, Pressure Test To 9000 Psi., Ran QC On Fluid, Looks Good.
06:15	0.34	06:35	SMTG	Safety Meeting	Safety Meeting. Talk About Smoking Area, PPE, Escape And Mustering Areas, Communication, And Red Zone.



# Bill Barrett Corporation

Time Log					
Start Time	Dur (hr)	End Time	Code	Category	Com
06:35	0.25	06:50	FRAC	Frac. Job	Acidize Stage 5. Open Well, 928 Psi. ICP. BrokeDown At 10.0 Bpm And 1,108 Psi.. Pump 15,000 Gals. 15% HCL Drop 90 Bio Balls. Flush With 2% KCL To 15 Bbls. Over Bottom Perf. Volume. Get ISDP, 1,101 Psi.. 0.62 Psi./Ft. F.G.. WSI And Secured. Total Clean -21,669 Gals.. 516 Bbls.. BWTR -516 Bbls. Max. Rate -52.2 Bpm Avg. Rate -40.5 Bpm Max. Psi. -2,137 Psi. Avg. Psi. -1,693 Psi.
06:50	0.17	07:00	CTUW	W/L Operation	Well Turned Over To WireLine. Pick Up Gun String And CBP Plug Assembly. Equalize To Well Pressure.
07:00	1.00	08:00	PFRT	Perforating	RIH With 3 1/8" PJ Omega 3104 Perf. Gun Configured At 120 Degree Phasing, 3 S pf, .36" Penetration Charges, 16 Gms., .44 Dia. Holes. Correlating To HES Dual Spaced Neutron/Spectral Density Dated 03-06-2013 And SLB CBL/CCL Dated 03-13-2013. Found And Correlated To Short Joint At 4,801 -4,823'. Drop Down To Depth, Set CBP At 5,838', 950 Psi.. Perforate Stage 6 Castle Peak Zone, 5,599 -5,821'. 45 Holes. 500 Psi.. POOH. LayDown Gun, Verify All Shots Fired, WSI And Secured.
08:00	0.08	08:05	GOP	General Operations	Well Turned Over To HES. Pressure Test To 8500#. Equalize, Open To Well.
08:05	0.25	08:20	FRAC	Frac. Job	Acidize Stage 6. Open Well, 160 Psi. ICP. BrokeDown At 9.4 Bpm And 1,473 Psi.. Pump 15,000 Gals. 15% HCL Drop 90 Bio Balls. Flush With 2% KCL To 15 Bbls. Over Bottom Perf. Volume. Get ISDP, 821 Psi.. 0.58 Psi./Ft. F.G.. WSI And Secured. Total Clean -21,294 Gals.. 507 Bbls.. BWTR -507 Bbls. Max. Rate -50.2 Bpm Avg. Rate -42.3 Bpm Max. Psi. -2,045 Psi. Avg. Psi. -1,500 Psi.
08:20	0.17	08:30	CTUW	W/L Operation	Well Turned Over To WireLine. Pick Up Gun String And CBP Plug Assembly. Equalize To Well Pressure.
08:30	0.83	09:20	PFRT	Perforating	RIH With 3 1/8" PJ Omega 3104 Perf. Gun Configured At 120 Degree Phasing, 3 S pf, .36" Penetration Charges, 16 Gms., .44 Dia. Holes. Correlating To HES Dual Spaced Neutron/Spectral Density Dated 03-06-2013 And SLB CBL/CCL Dated 03-13-2013. Found And Correlated To Short Joint At 4,801 -4,823'. Drop Down To Depth, Set CBP At 5,588', 600 Psi.. Perforate Stage 7 Castle Peak/Black Shale Zone, 5,366 -5,575'. 36 Holes. 350 Psi.. POOH. LayDown Gun, Verify All Shots Fired, WSI And Secured.
09:20	0.17	09:30	GOP	General Operations	Well Turned Over To HES. Pressure Test To 8500#. Equalize, Open To Well.
09:30	0.25	09:45	FRAC	Frac. Job	Acidize Stage 7. Open Well, 400 Psi. ICP. BrokeDown At 9.7 Bpm And 1,378 Psi.. Pump 15,000 Gals. 15% HCL Drop 90 Bio Balls. Flush With 2% KCL To 15 Bbls. Over Bottom Perf. Volume. Get ISDP, 1,169 Psi.. 0.65 Psi./Ft. F.G.. WSI And Secured. Total Clean -21,287 Gals.. 507 Bbls.. BWTR -507 Bbls. Max. Rate -50.3 Bpm Avg. Rate -41.0 Bpm Max. Psi. -2,029 Psi. Avg. Psi. -1,756 Psi.
09:45	0.25	10:00	CTUW	W/L Operation	Well Turned Over To WireLine. Pick Up CBP Plug Assembly. Equalize To Well Pressure.
10:00	1.00	11:00	PFRT	Perforating	RIH With 3 1/8" Sinker Bars And CBP Plug Assembly. Correlating To HES Dual Spaced Neutron/Spectral Density Dated 03-06-2013 And SLB CBL/CCL Dated 03-13-2013. Found And Correlated To Short Joint At 4,801 -4,823'. Drop Down To Depth, Set CBP At 5,330', 500 Psi.. Bleed Pressure Off Well. POOH. LayDown Tools, WSI And Secured.
11:00	3.00	14:00	SRIG	Rig Up/Down	RigDown WireLine And Frac Crews, MOL.
14:00	16.00	06:00	LOCL	Lock Wellhead & Secure	WSI And Secured. Batch Water. Move Frac Tanks Off Location. SDFD.



**5-21D-46 LC Tribal 3/31/2013 06:00 - 4/1/2013 06:00**

API/UWI 43013336580000	State/Province Utah	County Duchesne	Field Name Brundage Canyon/Lake Canyon	Well Status PRODUCING	Total Depth (ftKB) 7,392.0	Primary Job Type Drilling/Completion
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**Time Log**

Start Time	Dur (hr)	End Time	Code	Category	Com
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**5-21D-46 LC Tribal 3/31/2013 06:00 - 4/1/2013 06:00**

API/UWI 43013336580000	State/Province Utah	County Duchesne	Field Name Brundage Canyon/Lake Canyon	Well Status PRODUCING	Total Depth (ftKB) 7,392.0	Primary Job Type Drilling/Completion
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**Time Log**

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	1.00	07:00	CTRL	Crew Travel	CREW TRAVEL.
07:00	3.50	10:30	SRIG	Rig Up/Down	ROAD RIG FROM 2-13D-46 TO LOCATION. SPOT AND RUSU. ND FRAC VALVES. NU BOP. RU FLOOR. SPOT CATWALK AND RACKS. UNLOAD TBG.
10:30	2.50	13:00	RUTB	Run Tubing	HSM. MU 4-3/4" BIT, POBS, 1-J T, AND XN. RIH AS PU 167-J TS 2-7/8" L-80 TBG TO TAG KILL PLUG AT 5330
13:00	1.00	14:00	SRIG	Rig Up/Down	RU PWR SWIVEL. EST CIRC. PRES TEST TO 2500 PSI. GOOD.
14:00	2.50	16:30	DOPG	Drill Out Plugs	EST CIRC AND D/O PLUGS.  CBP #1 AT 5330'. C/O 0' SAND. D/O IN 5 MIN. FCP 150 PSI. CBP #2 AT 5588'. C/O 0' SAND. D/O IN 7 MIN. FCP 400 PSI. CBP #3 AT 5838'. C/O 0' SAND. D/O IN 7 MIN. FCP 700 PSI.  CIRC CLEAN. HANG PWR SWIVEL.
16:30	1.00	17:30	PULT	Pull Tubing	PULL 20 JTS TO GET ABOVE PERFS, EOT AT 5208'. SET CSG TO FLOW TO TREATER. TURN OVER TO FBC.
17:30	12.50	06:00	LOCL	Lock Wellhead & Secure	CREW TRAVEL. WELL SECURE AND FLOWING TO SALES.

**5-21D-46 LC Tribal 4/1/2013 06:00 - 4/2/2013 06:00**

API/UWI 43013336580000	State/Province Utah	County Duchesne	Field Name Brundage Canyon/Lake Canyon	Well Status PRODUCING	Total Depth (ftKB) 7,392.0	Primary Job Type Drilling/Completion
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**Time Log**

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	1.00	07:00	CTRL	Crew Travel	CREW TRAVEL. HSM.
07:00	1.50	08:30	GOP	General Operations	WELL FLOWED TO PROD OVERNIGHT. FLOWED 1020 BBLS ON 22/64 CHOKE, FCP 400 PSI. OPEN TO FBT AND RIH TO TAG. RU PWR SWIVEL.
08:30	7.00	15:30	DOPG	Drill Out Plugs	EST CIRC AND D/O PLUGS.  CBP #4 AT 6092'. C/O 10' SAND. D/O IN 7 MIN. FCP 500. CBP #5 AT 6360'. C/O 10' SAND. D/O IN 10 MIN. FCP 500. CBP #6 AT 6647'. C/O 16' SAND. D/O IN 9 MIN. FCP 450. CBP #7 AT 6878'. C/O 35' SAND. D/O IN 10 MIN. FCP 450. PBTD AT 7342'. C/O 280' SAND TO FC W/229-J TS IN.  CIRC CLEAN FOR 2-1/2 HRS. RD PWR SWIVEL.
15:30	1.00	16:30	PULT	Pull Tubing	POOH AS LD 61-J TS TBG. PU 7" 5K TBG HANGER. LUBE IN AND LAND 168-J TS TBG.  TBG DETAIL KB 15.00 7" 5K HANGER 167-J TS 2-7/8" TBG 2.31 XN 1-J T 2-7/8" TBG POBS
16:30	1.50	18:00	GOP	General Operations	RD FLOOR. ND BOP. NU WH. POBS AT 1800 PSI. TURN WELL OVER TO PRODUCTION. RDS U. RACK OUT EQUIP.
18:00	12.00	06:00	FBCK	Flowback Well	CREW TRAVEL. WELL FLOWING TO PRODUCTION AND SALES.

<b>STATE OF UTAH</b> DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		<b>FORM 9</b>
<b>SUNDRY NOTICES AND REPORTS ON WELLS</b>  Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.		<b>5. LEASE DESIGNATION AND SERIAL NUMBER:</b> 1420H626430
<b>1. TYPE OF WELL</b> Gas Well		<b>6. IF INDIAN, ALLOTTEE OR TRIBE NAME:</b> UTE
<b>2. NAME OF OPERATOR:</b> BILL BARRETT CORP		<b>7. UNIT or CA AGREEMENT NAME:</b>
<b>3. ADDRESS OF OPERATOR:</b> 1099 18th Street Ste 2300 , Denver, CO, 80202		<b>8. WELL NAME and NUMBER:</b> LC TRIBAL 5-21D-46
<b>4. LOCATION OF WELL</b> <b>FOOTAGES AT SURFACE:</b> 1520 FNL 1199 FWL <b>QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:</b> Qtr/Qtr: SWNW Section: 21 Township: 04.0S Range: 06.0W Meridian: U		<b>9. API NUMBER:</b> 43013336580000
<b>PHONE NUMBER:</b> 303 312-8134 Ext		<b>9. FIELD and POOL or WILDCAT:</b> ALTAMONT
<b>COUNTY:</b> DUCHESNE		<b>STATE:</b> UTAH

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION			
<input type="checkbox"/> NOTICE OF INTENT Approximate date work will start:	<input type="checkbox"/> ACIDIZE  <input type="checkbox"/> CHANGE TO PREVIOUS PLANS  <input type="checkbox"/> CHANGE WELL STATUS  <input type="checkbox"/> DEEPEN  <input type="checkbox"/> OPERATOR CHANGE  <input type="checkbox"/> PRODUCTION START OR RESUME  <input type="checkbox"/> REPERFORATE CURRENT FORMATION  <input type="checkbox"/> TUBING REPAIR  <input type="checkbox"/> WATER SHUTOFF  <input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> ALTER CASING  <input type="checkbox"/> CHANGE TUBING  <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS  <input type="checkbox"/> FRACTURE TREAT  <input type="checkbox"/> PLUG AND ABANDON  <input type="checkbox"/> RECLAMATION OF WELL SITE  <input type="checkbox"/> SIDETRACK TO REPAIR WELL  <input type="checkbox"/> VENT OR FLARE  <input type="checkbox"/> SI TA STATUS EXTENSION	<input type="checkbox"/> CASING REPAIR  <input type="checkbox"/> CHANGE WELL NAME  <input type="checkbox"/> CONVERT WELL TYPE  <input type="checkbox"/> NEW CONSTRUCTION  <input type="checkbox"/> PLUG BACK  <input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION  <input type="checkbox"/> TEMPORARY ABANDON  <input type="checkbox"/> WATER DISPOSAL  <input type="checkbox"/> APD EXTENSION	<input checked="" type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion: <b>1/31/2014</b>  <input type="checkbox"/> SPUD REPORT Date of Spud:  <input type="checkbox"/> DRILLING REPORT Report Date:
		<input checked="" type="checkbox"/> OTHER	OTHER: <input style="width: 100px;" type="text" value="Lease"/>	

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.  

The tribal lease has been amended to 1420H626430.

**Accepted by the**  
**Utah Division of**  
**Oil, Gas and Mining**  
**FOR RECORD ONLY**  
 February 04, 2014

<b>NAME (PLEASE PRINT)</b> Venessa Langmacher	<b>PHONE NUMBER</b> 303 312-8172	<b>TITLE</b> Senior Permit Analyst
<b>SIGNATURE</b> N/A	<b>DATE</b> 1/31/2014	

RECEIVED: Dec. 23, 2014

28b. Production - Interval C									
Date First Produced	Test Date	Hours Tested	Test Production →	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate →	Oil BBL	Gas MCF	Water BBL	Gas:Oil Ratio	Well Status	

28c. Production - Interval D									
Date First Produced	Test Date	Hours Tested	Test Production →	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate →	Oil BBL	Gas MCF	Water BBL	Gas:Oil Ratio	Well Status	

29. Disposition of Gas(*Sold, used for fuel, vented, etc.*)  
**CAPTURED**

30. Summary of Porous Zones (Include Aquifers):

Show all important zones of porosity and contents thereof: Cored intervals and all drill-stem tests, including depth interval tested, cushion used, time tool open, flowing and shut-in pressures and recoveries.

31. Formation (Log) Markers

Formation	Top	Bottom	Descriptions, Contents, etc.	Name	Top
					Meas. Depth
				GREEN RIVER MAHOGANY TGR3 DOUGLAS CREEK BLACK SHALE CASTLE PEAK UTELAND BUTTE WASATCH	1910 2454 3733 4557 5375 5522 5860 6060

32. Additional remarks (include plugging procedure):

This completion report is being submitted to add the Wasatch top. No additional work was done. This well is currently producing from GR-WS.

33. Circle enclosed attachments:

- |   |                    |               |                       |
|---|--------------------|---------------|-----------------------|
| 1. Electrical/Mechanical Logs (1 full set req'd.)     | 2. Geologic Report | 3. DST Report | 4. Directional Survey |
| 5. Sundry Notice for plugging and cement verification | 6. Core Analysis   | 7 Other:      |                       |

34. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records (see attached instructions):

**Electronic Submission #285907 Verified by the BLM Well Information System.  
For BILL BARRETT CORP, sent to the Vernal**

Name(*please print*) VENESSA LANGMACHER

Title SR PERMIT ANALYST

Signature \_\_\_\_\_ (Electronic Submission)

Date 12/19/2014

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

**\*\* ORIGINAL \*\* ORIGINAL \*\* ORIGINAL \*\* ORIGINAL \*\* ORIGINAL \*\* ORIGINAL \*\* ORIGINAL \*\***

**RECEIVED:** Dec. 23, 2014

Effective Date: 11/1/2016

<b>FORMER OPERATOR:</b>	<b>NEW OPERATOR:</b>
Bill Barrett Corporation 1099 18th Street, Suite 2300 Denver, CO 80202	Rig II, LLC 1582 West 2600 South Woods Cross, UT 84087
CA Number(s):	Unit(s):

**WELL INFORMATION:**

Well Name	Sec	TWN	RNG	API	Entity	Mineral	Surface	Type	Status
See Attached List									

**OPERATOR CHANGES DOCUMENTATION:**

1. Sundry or legal documentation was received from the **FORMER** operator on: 10/21/2016
2. Sundry or legal documentation was received from the **NEW** operator on: 10/21/2016
3. New operator Division of Corporations Business Number: 8256968-0160

**REVIEW:**

1. Surface Agreement Sundry from **NEW** operator on Fee Surface wells received on: N/A
2. Receipt of Acceptance of Drilling Procedures for APD on: 10/21/2016
3. Reports current for Production/Disposition & Sundries: 11/2/2016
4. OPS/SI/TA well(s) reviewed for full cost bonding: 11/3/2016
5. UIC5 on all disposal/injection/storage well(s) approved on: 11/3/2016
6. Surface Facility(s) included in operator change: None
7. Inspections of PA state/fee well sites complete on (only upon operators request): 11/3/2016

**NEW OPERATOR BOND VERIFICATION:**

1. Federal well(s) covered by Bond Number: UTB000712
2. Indian well(s) covered by Bond Number: LPM 922467
3. State/fee well(s) covered by Bond Number(s): 9219529

**DATA ENTRY:**

1. Well(s) update in the **OGIS** on: 11/7/2016
2. Entity Number(s) updated in **OGIS** on: 11/7/2016
3. Unit(s) operator number update in **OGIS** on: N/A
4. Surface Facilities update in **OGIS** on: N/A
5. State/Fee well(s) attached to bond(s) in **RBDMS** on: 11/7/2016
6. Surface Facilities update in **RBDMS** on: N/A

**COMMENTS:**

From: Bill Barrett Corporation

To: Rig II, LLC

Effective 11/1/2016

Well Name	Sec	TWN	RNG	API Number	Entity	Mineral	Surface	Type	Status
SWD 9-36 BTR	9	030S	060W	4301350646	18077	Indian	Fee	WD	A
16-6D-46 BTR SWD	6	040S	060W	4301350781	18327	Indian	Fee	WD	A
6-32-36 BTR SWD	32	030S	060W	4301350921	18329	Indian	Fee	WD	A
LC TRIBAL 8-26D-47	26	040S	070W	4301334024		Indian	Indian	OW	APD
16-21D-37 BTR	21	030S	070W	4301350758		Indian	Fee	OW	APD
14-11D-37 BTR	11	030S	070W	4301350862		Indian	Fee	OW	APD
7-17D-46 BTR	17	040S	060W	4301350883		Indian	Indian	OW	APD
14-12D-37 BTR	12	030S	070W	4301350894		Indian	Fee	OW	APD
1-18D-36 BTR	18	030S	060W	4301350922		Indian	Fee	OW	APD
13-2D-45 BTR	2	040S	050W	4301350931		Indian	Indian	OW	APD
5H-16-46 BTR	16	040S	060W	4301350992		Indian	Indian	OW	APD
9H-17-45 BTR	17	040S	050W	4301351098		Indian	Indian	OW	APD
13H-8-46 BTR UB	8	040S	060W	4301351124		Indian	Indian	OW	APD
8H-9-46 BTR	9	040S	060W	4301351140		Indian	Indian	OW	APD
LC TRIBAL 7-31D-37	31	030S	070W	4301351147		Indian	Fee	OW	APD
14-16D-45 BTR	16	040S	050W	4301351178		Indian	Indian	OW	APD
16-19D-37 BTR	19	030S	070W	4301351179		Indian	Fee	OW	APD
6-2D-45 BTR	2	040S	050W	4301351234		Indian	Indian	OW	APD
2-2D-45 BTR	2	040S	050W	4301351235		Indian	Indian	OW	APD
10-26-35 BTR	26	030S	050W	4301351248		Indian	Fee	OW	APD
LC TRIBAL 1H-33-46	33	040S	060W	4301351257		Indian	Fee	OW	APD
LC TRIBAL 9-25D-46	25	040S	060W	4301351276		Indian	Indian	OW	APD
LC TRIBAL 8H-30-45	30	040S	050W	4301351277		Indian	Indian	OW	APD
LC TRIBAL 16H-30-45	30	040S	050W	4301351279		Indian	Indian	OW	APD
LC TRIBAL 13-30D-45	30	040S	050W	4301351282		Indian	Indian	OW	APD
LC TRIBAL 16H-36-46	36	040S	060W	4301351291		Indian	Indian	OW	APD
LC TRIBAL 13H-30-46	30	040S	060W	4301351321		Indian	Indian	OW	APD
LC TRIBAL 13H-31-46	31	040S	060W	4301351326		Indian	Indian	OW	APD
LC TRIBAL 16-31D-46	31	040S	060W	4301351328		Indian	Indian	OW	APD
LC TRIBAL 5H-26-47	26	040S	070W	4301351337		Indian	Indian	OW	APD
LC TRIBAL 5H-19-45	20	040S	050W	4301351349		Indian	Indian	OW	APD
LC TRIBAL 16-36D-47	36	040S	070W	4301351363		Indian	Indian	OW	APD
15-4D-47 BTR	4	040S	070W	4301351377		Indian	Fee	OW	APD
16-23D-46 LC TRIBAL	23	040S	060W	4301351396		Indian	Fee	OW	APD
15-2D-36 BTR	2	030S	060W	4301351419		Indian	Fee	OW	APD
16-23D-37 BTR	23	030S	070W	4301351420		Indian	Fee	OW	APD
11-9D-47 BTR	9	040S	070W	4301351422		Indian	Fee	OW	APD
15-13D-47 BTR	13	040S	070W	4301351424		Indian	Indian	OW	APD
LC TRIBAL 15-19D-46	19	040S	060W	4301351426		Indian	Indian	OW	APD
16-13D-45 BTR	13	040S	050W	4301351428		Indian	Indian	OW	APD



From: Bill Barrett Corporation

To: Rig II, LLC

Effective 11/1/2016

14-12D-45 BTR	12	040S	050W	4301351444		Indian	Indian	OW	APD
16-14D-45 BTR	14	040S	050W	4301351445		Indian	Indian	OW	APD
5-13D-45 BTR	13	040S	050W	4301351446		Indian	Indian	OW	APD
LC TRIBAL 16-26D-46	26	040S	060W	4301351450		Indian	State	OW	APD
LC TRIBAL 16-34D-46	34	040S	060W	4301351451		Indian	State	OW	APD
16-12D-45 BTR	12	040S	050W	4301351452		Indian	Indian	OW	APD
8-12D-45 BTR	12	040S	050W	4301351453		Indian	Indian	OW	APD
LC TRIBAL 1-35D-46	35	040S	060W	4301351454		Indian	Fee	OW	APD
16-25D-37 BTR	25	030S	070W	4301351455		Indian	Fee	OW	APD
LC TRIBAL 13H-29-46	28	040S	060W	4301351462		Indian	Fee	OW	APD
LC TRIBAL 14-30D-37	30	030S	070W	4301351494		Indian	Fee	OW	APD
7-13D-45 BTR	13	040S	050W	4301351497		Indian	Indian	OW	APD
LC TRIBAL 4H-35-46	35	040S	060W	4301351515		Indian	Fee	OW	APD
LC TRIBAL 13H-19-46	19	040S	060W	4301351543		Indian	Indian	OW	APD
16-26D-37 BTR	26	030S	070W	4301351598		Indian	Fee	OW	APD
LC TRIBAL 16-31D-37	31	030S	070W	4301351610		Indian	Fee	OW	APD
5-4-35 BTR	4	030S	050W	4301351613		Indian	Fee	OW	APD
LC TRIBAL 16-31D-47	31	040S	070W	4301351616		Indian	Indian	OW	APD
LC TRIBAL 13H-31-47	31	040S	070W	4301351617		Indian	Indian	OW	APD
LC TRIBAL 13-32D-47	32	040S	070W	4301351619		Indian	Indian	OW	APD
LC TRIBAL 16H-32-47	32	040S	070W	4301351620		Indian	Indian	OW	APD
LC TRIBAL 1-32D-47	32	040S	070W	4301351624		Indian	Indian	OW	APD
LC TRIBAL 4H-32-47	32	040S	070W	4301351625		Indian	Indian	OW	APD
LC TRIBAL 13-28D-47	28	040S	070W	4301351627		Indian	Indian	OW	APD
LC TRIBAL 13H-29-47	28	040S	070W	4301351628		Indian	Indian	OW	APD
LC TRIBAL 16H-28-47	28	040S	070W	4301351629		Indian	Indian	OW	APD
LC TRIBAL 1-28D-47	28	040S	070W	4301351639		Indian	Indian	OW	APD
LC TRIBAL 1H-27-47	28	040S	070W	4301351640		Indian	Indian	OW	APD
LC TRIBAL 4H-28-47	28	040S	070W	4301351641		Indian	Indian	OW	APD
LC TRIBAL 7-25D-58	25	050S	080W	4301351643		Indian	Indian	OW	APD
LC TRIBAL 6-25D-58	25	050S	080W	4301351644		Indian	Indian	OW	APD
LC TRIBAL 13H-24-58	24	050S	080W	4301351645		Indian	Indian	OW	APD
LC TRIBAL 16-24D-58	24	050S	080W	4301351646		Indian	Indian	OW	APD
LC Tribal 8-23D-46	23	040S	060W	4301351654		Indian	Fee	OW	APD
LC Tribal 16-35D-45	35	040S	050W	4301351656		Indian	Fee	OW	APD
LC Tribal 13H-35-45	35	040S	050W	4301351657		Indian	Fee	OW	APD
LC Tribal 16-36D-45	36	040S	050W	4301351658		Indian	Fee	OW	APD
LC Tribal 13H-36-45	36	040S	050W	4301351659		Indian	Fee	OW	APD
LC Tribal 5-36D-45	36	040S	050W	4301351661		Indian	Fee	OW	APD
LC Tribal 8-26D-46	26	040S	060W	4301351663		Indian	Fee	OW	APD
3-29D-36 BTR	29	030S	060W	4301351665		Indian	Fee	OW	APD

From: Bill Barrett Corporation

To: Rig II, LLC

Effective 11/1/2016

LC Tribal 5-35D-45	35	040S	050W	4301351666	Indian	Fee	OW	APD
LC Tribal 5-24D-46	24	040S	060W	4301351668	Indian	Indian	OW	APD
LC TRIBAL 6-12D-58	12	050S	080W	4301351696	Indian	Indian	OW	APD
LC TRIBAL 8-12D-58	12	050S	080W	4301351697	Indian	Indian	OW	APD
LC TRIBAL 16H-22-47	21	040S	070W	4301351700	Indian	Indian	OW	APD
5-25D-37 BTR	25	030S	070W	4301351803	Indian	Fee	OW	APD
8-3D-36 BTR	3	030S	060W	4301351804	Indian	Fee	OW	APD
14-26D-37 BTR	26	030S	070W	4301351805	Indian	Fee	OW	APD
9-4-35 BTR	4	030S	050W	4301351806	Indian	Fee	OW	APD
11-4D-35 BTR	4	030S	050W	4301351807	Indian	Fee	OW	APD
16-27D-37 BTR	27	030S	070W	4301351808	Indian	Fee	OW	APD
14-27D-37 BTR	27	030S	070W	4301351809	Indian	Fee	OW	APD
14-16D-46 BTR	16	040S	060W	4301351812	Indian	Indian	OW	APD
LC Tribal 16-35D-48	35	040S	080W	4301351847	Indian	Indian	OW	APD
LC Tribal 13H-35-48	35	040S	080W	4301351848	Indian	Indian	OW	APD
LC Tribal 13-2D-58	11	050S	080W	4301351850	Indian	Indian	OW	APD
5-13D-36 BTR	13	030S	060W	4301351862	Indian	Fee	OW	APD
5-8D-36 BTR	8	030S	060W	4301351871	Indian	Fee	OW	APD
16-1D-36 BTR	1	030S	060W	4301351872	Indian	Fee	OW	APD
8-18D-46 BTR	18	040S	060W	4301351897	Indian	Fee	OW	APD
LC Tribal 5-36D-46	36	040S	060W	4301351905	Indian	Indian	OW	APD
LC Tribal 5-26D-45	26	040S	050W	4301351907	Indian	Indian	OW	APD
14-13D-45 BTR	13	040S	050W	4301351974	Indian	Indian	OW	APD
14-34D-46 DLB	34	040S	060W	4301351975	Indian	Fee	OW	APD
LC Tribal 5-21D-45	21	040S	050W	4301352001	Indian	Indian	OW	APD
LC Tribal 8-22D-45	22	040S	050W	4301352002	Indian	Indian	OW	APD
LC Tribal 8-25D-45	25	040S	050W	4301352007	Indian	Indian	OW	APD
LC Tribal 16-25D-45	25	040S	050W	4301352008	Indian	Indian	OW	APD
LC Tribal 16-22D-45	22	040S	050W	4301352009	Indian	Indian	OW	APD
LC Tribal 16-26D-45	26	040S	050W	4301352010	Indian	Indian	OW	APD
LC Tribal 14-31D-37	31	030S	070W	4301352016	Indian	Fee	OW	APD
5-12D-45 BTR	12	040S	050W	4301352030	Indian	Indian	OW	APD
LC Tribal 9-20D-45	20	040S	050W	4301352031	Indian	Indian	OW	APD
LC Tribal 13-35D-47	35	040S	070W	4301352055	Indian	Indian	OW	APD
LC Tribal 1-23D-47	23	040S	070W	4301352057	Indian	Indian	OW	APD
9-17D-46 BTR	17	040S	060W	4301352059	Indian	Indian	OW	APD
11-18D-46 BTR	18	040S	060W	4301352060	Indian	Indian	OW	APD
9-10D-47 BTR	10	040S	070W	4301352092	Indian	Fee	OW	APD
LC Tribal 1-17D-47	17	040S	070W	4301352096	Indian	Fee	OW	APD
7-35D-37 BTR	35	030S	070W	4301352115	Indian	Fee	OW	APD
14-25D-37 BTR	25	030S	070W	4301352116	Indian	Fee	OW	APD

From: Bill Barrett Corporation

To: Rig II, LLC

Effective 11/1/2016

LC Tribal 5-25-46	25	040S	060W	4301352126	Indian	Indian	OW	APD
8-33D-35 BTR	33	030S	050W	4301352161	Indian	Fee	OW	APD
5-4D-36 BTR	4	030S	060W	4301352175	Indian	Fee	OW	APD
7-4D-36 BTR	4	030S	060W	4301352176	Indian	Fee	OW	APD
LC Tribal 4-36D-47	36	040S	070W	4301352186	Indian	Indian	OW	APD
LC Tribal 4-22D-46	22	040S	060W	4301352944	Indian	Indian	OW	APD
LC Tribal 16-22D-46	22	040S	060W	4301352945	Indian	Indian	OW	APD
LC Tribal 11-19D-46	19	040S	060W	4301352946	Indian	Indian	OW	APD
LC Tribal 7-20D-45	20	040S	050W	4301352947	Indian	Indian	OW	APD
15-11D-35 BTR	11	030S	050W	4301353056	Indian	Fee	OW	APD
13-11D-35 BTR	11	030S	050W	4301353057	Indian	Fee	OW	APD
BTR 16-36D-37	36	030S	070W	4301353059	Indian	Fee	OW	APD
4-29D-35 BTR	30	030S	050W	4301353060	Indian	Fee	OW	APD
1-30D-35 BTR	30	030S	050W	4301353061	Fee	Fee	OW	APD
LC TRIBAL 3-23D-46	23	040S	060W	4301353066	Indian	State	OW	APD
LC Tribal 14-23D-46	23	040S	060W	4301353067	Indian	State	OW	APD
LC Tribal 13-25D-46	25	040S	060W	4301353068	Indian	Indian	OW	APD
LC Tribal 14-26D-46	26	040S	060W	4301353069	Indian	State	OW	APD
LC Tribal 5-26D-46	26	040S	060W	4301353070	Indian	State	OW	APD
LC Tribal 11-35D-45	35	040S	050W	4301353071	Indian	State	OW	APD
LC Tribal 7-35D-45	35	040S	050W	4301353072	Indian	State	OW	APD
LC Tribal 3-35D-45	35	040S	050W	4301353075	Indian	State	OW	APD
LC Tribal 14-36D-45	36	040S	050W	4301353076	Indian	State	OW	APD
LC Tribal 13-36D-45	36	040S	050W	4301353077	Indian	State	OW	APD
LC Tribal 10-36D-45	36	040S	050W	4301353078	Indian	State	OW	APD
LC Tribal 8-36D-45	36	040S	050W	4301353079	Indian	State	OW	APD
LC Tribal 6-36D-45	36	040S	050W	4301353080	Indian	State	OW	APD
LC Tribal 1-34D-46	34	040S	060W	4301353081	Indian	State	OW	APD
LC Tribal 9-27D-46	27	040S	060W	4301353082	Indian	State	OW	APD
LC Tribal 13-35D-45	35	040S	050W	4301353083	Indian	State	OW	APD
LC Tribal 8-35D-45	35	040S	050W	4301353084	Indian	State	OW	APD
LC Tribal 15-35D-45	35	040S	050W	4301353085	Indian	State	OW	APD
LC Tribal 12-25D-45	25	040S	050W	4301353122	Indian	Indian	OW	APD
LC Tribal 14-25D-45	25	040S	050W	4301353123	Indian	Indian	OW	APD
LC Tribal 10-25D-45	25	040S	050W	4301353124	Indian	Indian	OW	APD
LC Tribal 11-26-45	26	040S	050W	4301353125	Indian	Indian	OW	APD
LC Tribal 13-26D-45	26	040S	050W	4301353126	Indian	Indian	OW	APD
LC Tribal 7-31D-46	31	040S	060W	4301353127	Indian	Indian	OW	APD
LC Tribal 7-19D-45	19	040S	050W	4301353128	Indian	Indian	OW	APD
LC Tribal 5-19D-45	19	040S	050W	4301353130	Indian	Indian	OW	APD
LC Tribal 7-25D-46	25	040S	060W	4301353132	Indian	Indian	OW	APD

From: Bill Barrett Corporation

To: Rig II, LLC

Effective 11/1/2016

LC Tribal 7-24D-46	24	040S	060W	4301353134		Indian	Indian	OW	APD
LC Tribal 14-31D-46	31	040S	060W	4301353135		Indian	Indian	OW	APD
LC Tribal 14-30D-46	30	040S	060W	4301353136		Indian	Indian	OW	APD
13-4-35 BTR SWD	4	030S	050W	4301353293		Fee	Fee	OW	APD
LC FEE 14-26D-47	26	040S	070W	4301353294		Fee	Indian	OW	APD
LC Fee 5-25D-47	25	040S	070W	4301353295		Fee	Indian	OW	APD
7-35-46 LC SWD	35	040S	060W	4301353296		Fee	Fee	OW	APD
LC Fee 1H-33-47	32	040S	070W	4301353309		Fee	Indian	OW	APD
LC FEE 14-2D-58	2	050S	080W	4301353312		Fee	Indian	OW	APD
LC FEE 13H-21-47	21	040S	070W	4301353313		Fee	Indian	OW	APD
LC Fee 16-21D-47	21	040S	070W	4301353326		Fee	Indian	OW	APD
16-7D-46 BTR	7	040S	060W	4301353328		Fee	Indian	OW	APD
LC Fee 15-26D-47	26	040S	070W	4301353331		Fee	Indian	OW	APD
LC Fee 4-24D-47	23	040S	070W	4301353332		Fee	Indian	OW	APD
LC Fee 5-34D-47	34	040S	070W	4301353333		Fee	Indian	OW	APD
LC Fee 5-35D-47	35	040S	070W	4301353334		Fee	Indian	OW	APD
13-34D-47 LC Fee	34	040S	070W	4301353337		Fee	Indian	OW	APD
14-35D-35 BTR	35	030S	050W	4301352120		Fee	Fee	OW	DRL
6-17D-46 BTR	17	040S	060W	4301351078		Indian	Indian	OW	OPS
5-34D-35 BTR	34	030S	050W	4301351187		Indian	Fee	OW	OPS
5-10D-45 BTR	10	040S	050W	4301351221		Indian	Indian	OW	OPS
5-3D-45 BTR	3	040S	050W	4301351810		Indian	Indian	OW	OPS
9-34D-35 BTR	34	030S	050W	4301352117		Fee	Fee	OW	OPS
5-35D-35 BTR	35	030S	050W	4301352118		Fee	Fee	OW	OPS
1-2D-46 BTR	2	040S	060W	4301353086		Indian	Fee	OW	OPS
7-21-46 DLB	21	040S	060W	4301333567	16526	Indian	Indian	OW	P
LC TRIBAL 1H-27-46	27	040S	060W	4301333568	18175	Indian	Fee	GW	P
7-29-46 DLB	29	040S	060W	4301333584	17603	Indian	Fee	GW	P
LC TRIBAL 12H-28-46	28	040S	060W	4301333631	18132	Indian	Indian	GW	P
LC TRIBAL 13H-21-46	21	040S	060W	4301333632	18107	Indian	Indian	GW	P
12-36-36 BTR	36	030S	060W	4301333638	16336	Indian	Fee	GW	P
5-5-46 BTR	5	040S	060W	4301333639	16542	Indian	Fee	OW	P
5-23-36 BTR	23	030S	060W	4301333642	16675	Indian	Fee	GW	P
14-29-36 BTR	29	030S	060W	4301333643	16725	Indian	Fee	OW	P
14-30-36 BTR	30	030S	060W	4301333644	16701	Indian	Fee	GW	P
7-20-46 DLB	20	040S	060W	4301333657	16584	Indian	Indian	OW	P
LC TRIBAL 5-21D-46	21	040S	060W	4301333658	18887	Indian	Indian	OW	P
5-20-46 DLB	20	040S	060W	4301333659	18750	Indian	Indian	GW	P
LC TRIBAL 13H-20-46	20	040S	060W	4301333678	17979	Indian	Indian	GW	P
14-7-46 BTR	7	040S	060W	4301333806	16890	Indian	Indian	GW	P
7-8-45 BTR	8	040S	050W	4301333820	16974	Indian	Indian	OW	P

From: Bill Barrett Corporation

To: Rig II, LLC

Effective 11/1/2016

1-5-45 BTR	5	040S	050W	4301333868	16931	Indian	Indian	OW	P
5-16-36 BTR	16	030S	060W	4301333970	17195	Indian	Fee	OW	P
5-29-36 BTR	29	030S	060W	4301333972	17557	Indian	Fee	OW	P
4-30-36 BTR	30	030S	060W	4301333973	17249	Indian	Fee	OW	P
7-19-46 DLB	19	040S	060W	4301334004	19018	Indian	Indian	OW	P
5-25-36 BTR	25	030S	060W	4301334021	17126	Fee	Fee	OW	P
5-4-45 BTR	4	040S	050W	4301334089	17507	Indian	Indian	OW	P
13-2-46 BTR	2	040S	060W	4301334090	18618	Indian	Indian	OW	P
2-3-45 BTR	3	040S	050W	4301334099	17932	Indian	Indian	OW	P
7-6-45 BTR	6	040S	050W	4301334100	17653	Indian	Indian	OW	P
1-9-45 BTR	9	040S	050W	4301334101	17910	Indian	Indian	OW	P
8-10-45 BTR	10	040S	050W	4301334102	17530	Indian	Indian	OW	P
7-17-45 BTR	17	040S	050W	4301334104	17933	Indian	Indian	OW	P
16-7-45 BTR	7	040S	050W	4301334111	17665	Indian	Indian	OW	P
15-18-45 BTR	18	040S	050W	4301334112	17832	Indian	Indian	OW	P
6-12-46 BTR	12	040S	060W	4301334114	17964	Indian	Indian	OW	P
5-13-46 BTR	13	040S	060W	4301334115	17833	Indian	Indian	OW	P
16-26-36 BTR	26	030S	060W	4301334132	18028	Indian	Fee	OW	P
1-23-36 BTR	23	030S	060W	4301334136	17722	Indian	Fee	OW	P
15-10-36 BTR	10	030S	060W	4301334277	17419	Indian	Fee	OW	P
14-5-46 BTR	5	040S	060W	4301350307	17624	Fee	Fee	OW	P
14X-22-46 DLB	22	040S	060W	4301350351	17604	Indian	Indian	OW	P
16-13-36 BTR	13	030S	060W	4301350372	17853	Indian	Fee	OW	P
5-33-46 DLB	33	040S	060W	4301350397	17765	Indian	Fee	OW	P
5-34-46 DLB	34	040S	060W	4301350415	17801	Indian	State	GW	P
LC FEE 12H-32-46	32	040S	060W	4301350431	18003	Fee	Fee	OW	P
1-13D-47 BTR	13	040S	070W	4301350445	18205	Indian	Fee	OW	P
16-8D-45 BTR	8	040S	050W	4301350466	18799	Indian	Indian	OW	P
7-13D-46 BTR	13	040S	060W	4301350470	18076	Indian	Indian	OW	P
14-8D-45 BTR	8	040S	050W	4301350567	18207	Indian	Indian	OW	P
14-5D-45 BTR	5	040S	050W	4301350568	18108	Indian	Indian	OW	P
16-31D-36 BTR	31	030S	060W	4301350573	18004	Indian	Fee	OW	P
5-7D-46 BTR	7	040S	060W	4301350574	18176	Indian	Indian	OW	P
LC TRIBAL 13H-33-46	34	040S	060W	4301350575	18223	Indian	State	OW	P
5-8-45 BTR	8	040S	050W	4301350607	18279	Indian	Indian	OW	P
16-6D-45 BTR	6	040S	050W	4301350610	18177	Indian	Indian	OW	P
5-18D-45 BTR	18	040S	050W	4301350611	18300	Indian	Indian	OW	P
7-26-37 BTR	26	030S	070W	4301350641	18131	Indian	Fee	OW	P
3-11D-36 BTR	11	030S	060W	4301350642	18299	Indian	Fee	OW	P
16-1D-46 BTR	1	040S	060W	4301350675	18525	Indian	Indian	OW	P
14-3-45 BTR	3	040S	050W	4301350676	18363	Indian	Indian	OW	P

From: Bill Barrett Corporation

To: Rig II, LLC

Effective 11/1/2016

4-17D-45 BTR	17	040S	050W	4301350687	18517	Indian	Indian	OW	P
5-6D-45 BTR	6	040S	050W	4301350688	18726	Indian	Indian	OW	P
7-7D-45 BTR	7	040S	050W	4301350689	18380	Indian	Indian	OW	P
14-10D-45 BTR	10	040S	050W	4301350754	18447	Indian	Indian	OW	P
14-9D-45 BTR	9	040S	050W	4301350755	18379	Indian	Indian	OW	P
13-16D-36 BTR	16	030S	060W	4301350757	18206	Indian	State	OW	P
5-9D-36 BTR	9	030S	060W	4301350843	18381	Indian	Fee	OW	P
16-5D-46 BTR	5	040S	060W	4301350844	18280	Fee	Fee	OW	P
5-27D-37 BTR	27	030S	070W	4301350847	18526	Indian	Fee	OW	P
7-4D-45 BTR	4	040S	050W	4301350884	18562	Indian	Indian	OW	P
2-16D-45 BTR	16	040S	050W	4301350899	18619	Indian	Indian	OW	P
16-10D-45 BTR	10	040S	050W	4301350902	18725	Indian	Indian	OW	P
5-2D-36 BTR	2	030S	060W	4301350913	18886	Indian	Fee	OW	P
13H-27-36 BTR	27	030S	060W	4301350918	18445	Indian	State	OW	P
8-16D-46 BTR	16	040S	060W	4301350953	19027	Indian	Indian	OW	P
16-16D-46 BTR	16	040S	060W	4301350956	19028	Indian	Indian	OW	P
16-9D-45 BTR	9	040S	050W	4301350962	18662	Indian	Indian	OW	P
14-31D-36 BTR	31	030S	060W	4301350973	18524	Indian	Fee	OW	P
5-10D-36 BTR	10	030S	060W	4301350978	18989	Indian	Fee	OW	P
1-32D-36 BTR	32	030S	060W	4301350979	18648	Indian	Fee	OW	P
16-12D-36 BTR	12	030S	060W	4301350980	18748	Indian	Fee	OW	P
2-18D-45 BTR	18	040S	050W	4301350991	18776	Indian	Indian	OW	P
3-1-46 BTR	1	040S	060W	4301351017	18777	Indian	Fee	OW	P
10-5-45 BTR	5	040S	050W	4301351062	18724	Indian	Indian	OW	P
12-4D-45 BTR	4	040S	050W	4301351063	18813	Indian	Indian	OW	P
1-10D-45 BTR	10	040S	050W	4301351064	18966	Indian	Indian	OW	P
16-2D-46 BTR	2	040S	060W	4301351079	18830	Indian	Indian	OW	P
9H-4-45 BTR	4	040S	050W	4301351092	18814	Indian	Indian	OW	P
12-17-45 BTR	17	040S	050W	4301351097	18984	Indian	Indian	OW	P
5-9D-46 BTR	9	040S	060W	4301351109	19313	Indian	Fee	OW	P
14-9D-36 BTR	9	030S	060W	4301351144	19004	Indian	Fee	OW	P
5-31D-36 BTR	31	030S	060W	4301351146	18691	Indian	Fee	OW	P
4-9D-45 BTR	9	040S	050W	4301351157	18883	Indian	Indian	OW	P
8-12D-46 BTR	12	040S	060W	4301351159	18911	Indian	Indian	OW	P
LC TRIBAL 16-23D-47	23	040S	070W	4301351180	18617	Indian	Indian	OW	P
14-7D-45 BTR	7	040S	050W	4301351222	18949	Indian	Indian	OW	P
5-16D-45 BTR	16	040S	050W	4301351223	18987	Indian	Indian	OW	P
4-5D-45 BTR	5	040S	050W	4301351242	18882	Indian	Indian	OW	P
LC TRIBAL 16H-19-45	19	040S	050W	4301351278	18627	Indian	Indian	OW	P
LC TRIBAL 13-19D-45	19	040S	050W	4301351280	18628	Indian	Indian	OW	P
LC TRIBAL 5-30D-45	30	040S	050W	4301351281	19448	Indian	Indian	OW	P



From: Bill Barrett Corporation

To: Rig II, LLC

Effective 11/1/2016

LC TRIBAL 15-24D-46	24	040S	060W	4301351283	18626	Indian	Indian	OW	P
LC TRIBAL 13H-24-46	19	040S	050W	4301351289	18629	Indian	Indian	OW	P
7-16-47 BTR	16	040S	070W	4301351296	18950	Indian	Fee	OW	P
14-18D-45 BTR	18	040S	050W	4301351313	19005	Indian	Indian	OW	P
LC TRIBAL 16-30D-46	30	040S	060W	4301351320	19006	Indian	Indian	OW	P
LC TRIBAL 5-20D-45	20	040S	050W	4301351331	19449	Indian	Indian	OW	P
11-8D-46 BTR	8	040S	060W	4301351336	19314	Indian	Indian	OW	P
5-7D-45 BTR	7	040S	050W	4301351350	18951	Indian	Indian	OW	P
7-5-35 BTR	5	030S	050W	4301351599	19078	Indian	Fee	OW	P
13-5D-35 BTR	5	030S	050W	4301351600	18996	Indian	Fee	OW	P
11-5D-35 BTR	5	030S	050W	4301351601	19061	Fee	Fee	OW	P
15-5D-35 BTR	5	030S	050W	4301351602	19062	Fee	Fee	OW	P
9-5D-35 BTR	5	030S	050W	4301351609	19029	Indian	Fee	OW	P
3-5D-35 BTR	5	030S	050W	4301351638	19079	Indian	Fee	OW	P
7-8-46 BTR	8	040S	060W	4301351702	19315	Indian	Indian	OW	P
7-30-46 DLB	30	040S	060W	4301351703	18997	Fee	Indian	OW	P
3-13D-46 BTR	13	040S	060W	4301351718	18881	Indian	Indian	OW	P
2-13D-46 BTR	13	040S	060W	4301351719	18885	Indian	Indian	OW	P
12-12D-46 BTR	12	040S	060W	4301351720	18867	Indian	Indian	OW	P
10-12D-46 BTR	12	040S	060W	4301351721	18856	Indian	Indian	OW	P
11-11D-47 BTR	11	040S	070W	4301352091	19633	Fee	Fee	OW	P
7-12D-47 BTR	12	040S	070W	4301352094	19600	Indian	Fee	OW	P
5-12D-47 BTR	12	040S	070W	4301352095	19634	Indian	Fee	OW	P
14-33D-35 BTR	33	030S	050W	4301352162	19450	Indian	Fee	OW	P
16-33D-35 BTR	33	030S	050W	4301352163	19451	Indian	Fee	OW	P
14-22-46 DLB	22	040S	060W	4301333660	17604	Indian	Indian	D	PA
13H-31-36 BTR	31	030S	060W	4301350465	18485	Indian	Fee	OW	PA
16X-23D-36 BTR	23	030S	060W	4301350623	18007	Indian	State	OW	PA
8-6-45 BTR	6	040S	050W	4301350900	18561	Indian	Indian	OW	PA
13-13-36 BTR	13	030S	060W	4301350919	18364	Indian	Fee	OW	PA
7-28-46 DLB	28	040S	060W	4301333569	16460	Indian	Indian	OW	S
5-21-36 BTR	21	030S	060W	4301333641	16674	Indian	Fee	GW	S
13-26-36 BTR	26	030S	060W	4301333980	17569	Indian	Fee	OW	S
14-1-46 BTR	1	040S	060W	4301334113	18516	Indian	Indian	OW	S
16-21-36 BTR	21	030S	060W	4301334130	17721	Indian	Fee	OW	S
14-21-36 BTR	21	030S	060W	4301334131	18006	Indian	Fee	OW	S
7-16-36 BTR	16	030S	060W	4301334133	17834	Indian	Fee	OW	S
1-30-36 BTR	30	030S	060W	4301334134	17905	Indian	Fee	OW	S
16-30-36 BTR	30	030S	060W	4301334135	18005	Indian	Fee	OW	S
3-23-36 BTR	23	030S	060W	4301334137	17860	Indian	Fee	OW	S
16-16-36 BTR	16	030S	060W	4301334138	17666	Indian	Fee	OW	S

From: Bill Barrett Corporation

To: Rig II, LLC

Effective 11/1/2016

4-26-36 BTR	26	030S	060W	4301334139	17620	Fee	Fee	OW	S
9-11-36 BTR	11	030S	060W	4301334276	17451	Indian	Fee	OW	S
3-36-36 BTR	36	030S	060W	4301350398	17955	Indian	Fee	OW	S
7-10-36 BTR	10	030S	060W	4301350437	18052	Indian	Fee	OW	S
16-12D-46 BTR	12	040S	060W	4301350467	18051	Indian	Indian	OW	S
13H-13-46 BTR	13	040S	060W	4301350468	18208	Indian	Indian	OW	S
13-12-46 BTR	12	040S	060W	4301350469	18233	Indian	Indian	OW	S
14-8D-36 BTR	8	030S	060W	4301350612	18163	Indian	Fee	OW	S
14-7D-36 BTR	7	030S	060W	4301350613	18330	Indian	Fee	OW	S
16-9-36 BTR	9	030S	060W	4301350645	18078	Indian	Fee	OW	S
7-27-37 BTR	27	030S	070W	4301350647	18090	Indian	Fee	OW	S
16-12D-37 BTR	12	030S	070W	4301350785	18446	Indian	Fee	OW	S
14-21D-37 BTR	21	030S	070W	4301350859	18548	Indian	Fee	OW	S
10-18D-36 BTR	18	030S	060W	4301350915	18884	Indian	Fee	OW	S
5-27D-36	27	030S	060W	4301350917	18482	Indian	State	OW	S
10-36D-36 BTR	36	030S	060W	4301351005	18523	Indian	Fee	OW	S
14-6D-45 BTR	6	040S	050W	4301351158	18967	Indian	Indian	OW	S
5H-1-46 BTR UTELAND BUTTE	6	040S	050W	4301351215	18728	Indian	Indian	OW	S
5H-1-46 BTR WASATCH	6	040S	050W	4301351216	18727	Indian	Indian	OW	S
1-25D-36 BTR	25	030S	060W	4301351294	18798	Indian	Fee	OW	S
5-5D-35 BTR	5	030S	050W	4301351605	19055	Indian	Fee	OW	S
16-23-36 BTR	23	030S	060W	4301333971	17182	Indian	Fee	OW	TA
LC TRIBAL 14-23D-47	23	040S	070W	4301334022	18616	Indian	Indian	OW	TA
5-32D-36 BTR	32	030S	060W	4301350756	18328	Indian	Fee	OW	TA



October 20, 2016

Re: Bill Barrett Corporation Transfer to New Operator

Dear Ms. Medina:

Attached please find the change of operation Form 9, Form 5's and Request to Transfer APD form changing the operator from Bill Barrett Corporation to RIG II, LLC, effective 11/1/2016. Badlands Energy – Utah, LLC will be a sub-operator.

**New Operator Contact information:**

RIG II, LLC  
1582 West 2600 South  
Woods Cross, Utah 84087-0298  
Telephone: (801) 683-4245  
Fax: (801) 298-9889

Upon reviewing the attached, please contact myself with any questions at 303-312-8115.

Sincerely,

Bill Barrett Corporation

Brady Riley  
Permit Analyst

**RECEIVED**  
OCT 21 2016  
DIV. OF OIL, GAS & MINING

STATE OF UTAH  
DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF OIL, GAS AND MINING

FORM 9

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.

5. LEASE DESIGNATION AND SERIAL NUMBER:  
(see attached well list)

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:  
N/A

7. UNIT or CA AGREEMENT NAME:

8. WELL NAME and NUMBER:  
(see attached well list)

9. API NUMBER:

10. FIELD AND POOL, OR WILDCAT:

1. TYPE OF WELL  
OIL WELL ☒ GAS WELL ☐ OTHER \_\_\_\_\_

2. NAME OF OPERATOR:  
RIG II, LLC N4055

3. ADDRESS OF OPERATOR:  
1582 West 2600 South CITY Wood Cross STATE UT ZIP 84087 PHONE NUMBER: (801) 683-4245

4. LOCATION OF WELL  
FOOTAGES AT SURFACE: (see attached well list)

COUNTY:

QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:

STATE: UTAH

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION		
<input checked="" type="checkbox"/> NOTICE OF INTENT (Submit in Duplicate) Approximate date work will start: 11/1/2016	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> REPERFORATE CURRENT FORMATION
	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> SIDETRACK TO REPAIR WELL
	<input type="checkbox"/> CASING REPAIR	<input type="checkbox"/> NEW CONSTRUCTION	<input type="checkbox"/> TEMPORARILY ABANDON
	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input checked="" type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> TUBING REPAIR
	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> VENT OR FLARE
<input type="checkbox"/> SUBSEQUENT REPORT (Submit Original Form Only) Date of work completion:	<input type="checkbox"/> CHANGE WELL NAME	<input type="checkbox"/> PLUG BACK	<input type="checkbox"/> WATER DISPOSAL
	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> PRODUCTION (START/RESUME)	<input type="checkbox"/> WATER SHUT-OFF
	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input type="checkbox"/> OTHER: _____
	<input type="checkbox"/> CONVERT WELL TYPE	<input type="checkbox"/> RECOMPLETE - DIFFERENT FORMATION	

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

RIG II, LLC IS SUBMITTING THIS SUNDRY AS NOTIFICATION THAT THE WELLS LISTED ON THE ATTACHED LIST HAVE BEEN SOLD TO RIG II, LLC BY BILL BARRETT CORPORATION EFFECTIVE 11/1/2016. PLEASE REFER ALL FUTURE CORRESPONDENCE TO THE ADDRESS BELOW.

RIG II, LLC  
1582 West 2600 South  
Woods Cross, Utah 84087-0298  
801-683-4245  
(STATE/FEE BOND # 9219529/ BLM BOND # UTB000712/ BIA BOND # LPM9224670)

BILL BARRETT CORPORATION N4165  
Duane Zavala NAME (PLEASE PRINT)  
Duane Zavala SIGNATURE  
Senior Vice President -  
EH&S, Government and Regulatory Affairs

RIG II, LLC  
Jesse McSwain NAME (PLEASE PRINT)  
Jesse McSwain SIGNATURE  
Manager

NAME (PLEASE PRINT) Jesse McSwain TITLE Manager  
SIGNATURE Jesse McSwain DATE 10/20/16

(This space for State use only)

APPROVED

NOV 07 2016

**STATE OF UTAH**  
DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF OIL, GAS AND MINING

**Request to Transfer Application or Permit to Drill**

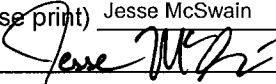
(This form should accompany a Sundry Notice, Form 9, requesting APD transfer)

<b>Well name:</b>	(See attached list)
<b>API number:</b>	
<b>Location:</b>	Qtr-Qtr:                      Section:                      Township:                      Range:
<b>Company that filed original application:</b>	Bill Barrett Corporation
<b>Date original permit was issued:</b>	
<b>Company that permit was issued to:</b>	Bill Barrett Corporation

Check one	Desired Action:
	<b>Transfer pending (unapproved) Application for Permit to Drill to new operator</b>
	The undersigned as owner with legal rights to drill on the property, hereby verifies that the information as submitted in the pending Application for Permit to Drill, remains valid and does not require revision. The new owner of the application accepts and agrees to the information and procedures as stated in the application.
<input checked="" type="checkbox"/>	<b>Transfer approved Application for Permit to Drill to new operator</b>
	The undersigned as owner with legal rights to drill on the property as permitted, hereby verifies that the information as submitted in the previously approved application to drill, remains valid and does not require revision.

Following is a checklist of some items related to the application, which should be verified.	Yes	No
If located on private land, has the ownership changed?	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/> If so, has the surface agreement been updated?	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Have any wells been drilled in the vicinity of the proposed well which would affect the spacing or siting requirements for this location?	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Have there been any unit or other agreements put in place that could affect the permitting or operation of this proposed well?	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Have there been any changes to the access route including ownership or right-of-way, which could affect the proposed location?	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Has the approved source of water for drilling changed?	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Have there been any physical changes to the surface location or access route which will require a change in plans from what was discussed at the onsite evaluation?	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Is bonding still in place, which covers this proposed well? Bond No. <small>9219529-LUDGM / UTB000712-BLM / LPM9224670-BIA</small>	<input checked="" type="checkbox"/>	<input type="checkbox"/>

Any desired or necessary changes to either a pending or approved Application for Permit to Drill that is being transferred, should be filed on a Sundry Notice, Form 9, or amended Application for Permit to Drill, Form 3, as appropriate, with necessary supporting information as required.

Name (please print) Jesse McSwain Title Manager  
Signature  Date 10/20/16  
Representing (company name) RIG II, LLC

The person signing this form must have legal authority to represent the company or individual(s) to be listed as the new operator on the Application for Permit to Drill.

**STATE OF UTAH**  
DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF OIL, GAS AND MINING

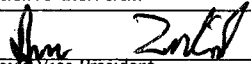
UIC FORM 5

**TRANSFER OF AUTHORITY TO INJECT**

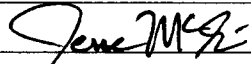
Well Name and Number <b>6-32-36 BTR SWD</b>	API Number <b>4301350921</b>
Location of Well  Footage : <b>1628 FNL 1553 FWL</b> County : <b>DUCHENSE</b>  QQ, Section, Township, Range: <b>SENW    32    3S    6W</b> State : <b>UTAH</b>	Field or Unit Name <b>CEDAR RIM</b>  Lease Designation and Number <b>2OG0005608</b>

**EFFECTIVE DATE OF TRANSFER:** 11/1/2016

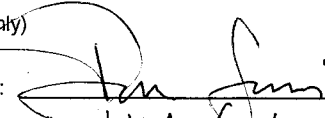
**CURRENT OPERATOR**

Company: <u>BILL BARRETT CORPORATION</u>	Name: <u>Duane Zavadii</u>
Address: <u>1099 18th Street Ste 2300</u>	Signature: <u></u>
city <u>DENVER</u> state <u>CO</u> zip <u>80202</u>	Title: <u>Senior Vice President -</u>
Phone: <u>(303) 293-9100</u>	Title: <u>EH&amp;S, Government and Regulatory Affairs</u>
Comments:	Date: <u>10/20/16</u>

**NEW OPERATOR**

Company: <u>RIG II, LLC</u>	Name: <u>Jesse McSwain</u>
Address: <u>1582 West 2600 South</u>	Signature: <u></u>
city <u>Wood Cross</u> state <u>UT</u> zip <u>84087</u>	Title: <u>Manager</u>
Phone: <u>(801) 683-4245</u>	Date: <u>10/20/16</u>
Comments:	

(This space for State use only)

Transfer approved by:   
Title: UIC Geologist

Approval Date: 11/3/16

Comments:



STATE OF UTAH  
DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF OIL, GAS AND MINING

UIC FORM 5

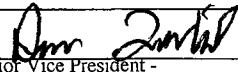
TRANSFER OF AUTHORITY TO INJECT

Well Name and Number 16-6D-46 BTR SWD	API Number 4301350781
Location of Well Footage : 0200 FSL 0099 FEL County : DUCHESNE QQ, Section, Township, Range: SESE 6 4S 6W State : UTAH	Field or Unit Name ALTAMONT Lease Designation and Number 2OG0005608

EFFECTIVE DATE OF TRANSFER: 11/1/2016

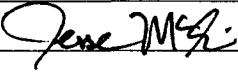
CURRENT OPERATOR

Company: BILL BARRETT CORPORATION  
Address: 1099 18th Street Ste 2300  
city DENVER state CO zip 80202  
Phone: (303) 293-9100  
Comments:


Name: Duane Zavadii  
Signature:   
Senior Vice President -  
Title: EH&S, Government and Regulatory Affairs  
Date: 10/20/16

NEW OPERATOR

Company: RIG II, LLC  
Address: 1582 West 2600 South  
city Wood Cross state UT zip 84087  
Phone: (801) 683-4245  
Comments:

Name: Jesse McSwain  
Signature:   
Title: Manager  
Date: 10/20/16

(This space for State use only)

Transfer approved by:   
Title: VIC

Approval Date: 11/3/16

Comments:

**STATE OF UTAH**  
DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF OIL, GAS AND MINING

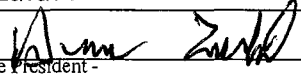
UIC FORM 5

**TRANSFER OF AUTHORITY TO INJECT**

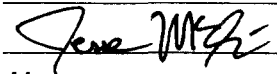
Well Name and Number <b>SWD 9-36 BTR</b>	API Number <b>4301350646</b>
Location of Well  Footage : <b>0539 FSL 0704 FEL</b>  County : <b>DUCHESNE</b>  QQ, Section, Township, Range: <b>SESE 9 3S 6W</b>  State : <b>UTAH</b>	Field or Unit Name <b>CEDAR RIM</b>  Lease Designation and Number <b>2OG0005608</b>

**EFFECTIVE DATE OF TRANSFER:** 11/1/2016

**CURRENT OPERATOR**

Company: <u>BILL BARRETT CORPORATION</u>	Name: <u>Duane Zavadi</u>
Address: <u>1099 18th Street Ste 2300</u>	Signature: <u></u>
city <u>DENVER</u> state <u>CO</u> zip <u>80202</u>	Title: <u>Senior Vice President - EH&amp;S, Government and Regulatory Affairs</u>
Phone: <u>(303) 293-9100</u>	Date: <u>10/20/16</u>
Comments:	

**NEW OPERATOR**

Company: <u>RIG II, LLC</u>	Name: <u>Jesse McSwain</u>
Address: <u>1582 West 2600 South</u>	Signature: <u></u>
city <u>Wood Cross</u> state <u>UT</u> zip <u>84087</u>	Title: <u>Manager</u>
Phone: <u>(801) 683-4245</u>	Date: <u>10/20/16</u>
Comments:	

(This space for State use only)

Transfer approved by: \_\_\_\_\_ Approval Date: \_\_\_\_\_

Title: \_\_\_\_\_

Comments:

*This well was approved by USEPA.  
EPA approval will be required.*